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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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INVENTORSHIP ..... Forte et al.  
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EXAMINER ..... Unknown  
ATTORNEY'S DOCKET NO. .... CA52-025  
TITLE: Blackjack Game System and Methods



**TRANSMITTAL LETTER AND CERTIFICATE OF MAILING**  
(Missing Requirements)

To: BOX MISSING PARTS  
Assistant Commissioner for Patents  
Washington, D.C. 20231

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Enclosed are:

1. Return Postcard Receipt
2. A \$65 check
3. Transmittal Letter with Certificate of Mailing
4. Copy of Notification of Missing Requirements
5. Executed Declaration with Power of Attorney

☒ Small Entity Status is claimed. ☐ Large Entity Status Applies.

The Commissioner is hereby authorized to charge payment of fees or credit overpayments to Deposit Account No. 23-0925 in connection with: any patent application processing fees under 37 CFR 1.17; and any filing fees under 37 CFR 1.16 for the presentation of extra claims.

Respectfully submitted,

Date: 12 Feb. 1998

By: Randy A. Gregory  
Title: Attorney/Agent for Applicant  
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**CERTIFICATE OF MAILING**

I hereby certify the items listed above as enclosed are being deposited with the U.S. Postal Service as first class mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231, on the below-indicated date.

Dated: 12 Feb. 1998

Signature: Karen S. Brasefield  
Name: Karen S. Brasefield

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. . . . . Unknown  
National Stage Entry Date . . . . . Filed herewith  
Related PCT Application Serial No. . . . . PCT/US95/12908  
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Related PCT Priority Date . . . . . 12 May 1995 (12.05.95)  
Inventor . . . . . Forte et al.  
Applicant . . . . . Casinovations, Inc.  
Attorney's Docket No. . . . . CA52-025  
Title: Blackjack Game System and Methods

**REQUEST FOR U.S. NATIONAL STAGE ENTRY FOR PCT APPLICATION**

To: Commissioner of Patents and Trademarks,  
Washington, D.C. 20231

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Applicant hereby files pursuant to the provisions of 35 U.S.C. §371 and 37  
C.F.R. §§1.491-495 for national stage processing in the United States for the Patent  
Cooperation Treaty application referenced above.

A copy of the international application:

- [ X ] Was originally filed with the U.S. Receiving Office.  
[ X ] Is enclosed.  
[ X ] Was previously communicated by the International Bureau.

The prior application is assigned of record to Casinovations, Inc. Such  
assignment is effective for this application, and is recorded starting at Reel 7961,  
Frame 0552.

The national stage fee is submitted herewith as indicated in the enclosed  
transmittal letter or should be paid from deposit account 23-0925.

APPLICANT'S CALCULATION OF TOTAL FEES DUE							
FEE TYPES							Amount (\$)
<b>BASIC FEE</b>							
CLAIMS FEES	Number of Claims Remaining After Any Amendment	Minus the Larger		Equals	Times Rate (\$)		
		Number Allowed in Base Fee	Number of Claims For Which Fees Have Been Paid	Excess Claims For Which Fees Are Now Due	Large Entity	Small Entity	
Total Claims	76	20	0	56	22.00	11.00 =	616
Indep. Claims	9	3	0	6	80.00	40.00 =	240
<b>EXTENSION FEES (\$)</b> An extension of a shortened statutory time for response under 37 CFR 1.136(a) is requested as indicated or as necessary to maintain the pendency of this application.				One Month	110.00	55.00	
				Two Month	390.00	195.00	
				Three Month	930.00	465.00	
				Four Month	1,470.00	735.00	
Any Extension Fee Believed Needed							0
<b>ANY OTHER FEES</b>							0
<b>TOTAL FEES OWED</b>							<b>856</b>

## PRELIMINARY AMENDMENTS

### In the Description

At page 1, line 1, insert the following paragraph:

--This is a national stage application filed under 35 U.S.C. §371 of PCT Application Serial No. PCT/US95/12908, filed 13 October 1995, which is a continuation-in-part of U.S. Patent Application Serial No. 08/439,687, filed May 12, 1995 (now U.S. Patent No. 5,586,766), which in turn was a continuation-in-part of U.S. Patent Application Serial No. 08/242,229, filed May 13, 1994 (now abandoned).--

### In the Claims

Add new claims 55-76.

Claims 1-54 remain in their prior condition.

### New Claims

55. A game system for playing the card game blackjack or casino twenty-one, comprising:

a plurality of electronic player counters for registering multiple player count values for a plurality of players, said player count values indicating the number of player jackpot tally events experienced by a particular player; said player jackpot tally events being an event defined by rules of a particular blackjack game and are countable for purposes of awarding one or more player jackpot bonuses;

means for selectively incrementing the player counters to change player count values for players who have experienced a player jackpot tally event;

means for zeroing the player count values of players who should have their player count values changed to zero;

1 at least one display for displaying at least one player count value;

2 a tabletop unit having an array of display lights thereon.

3 56. A game system as recited in claim 55 and further comprising a player  
4 key for each player, each player key being operated to indicate that the player  
5 experienced a player jackpot tally event;

6 and wherein said means for selectively incrementing the player count values  
7 is responsive to the player keys to increment the player count values.

8 57. A game system as recited in claim 55 and further comprising a player  
9 key for each player, each player key being operated to indicate that the player  
10 experienced a player jackpot tally event;

11 and wherein:

12 said means for selectively incrementing the player count values is responsive  
13 to the player keys to increment the player count values;

14 the at least one display includes a numeric indicator for each player, each  
15 player key being adjacent a corresponding numeric indicator.

16 58. A game system as recited in claim 55 and further comprising a  
17 controller connected to said plurality of electronic player counters and to said at least  
18 one display; said controller serving to analyze the player count values held by said  
19 player counters and to control said at least one display to indicate a first player  
20 jackpot bonus for any player whose player count value meets or exceeds a first player  
21 jackpot threshold.

22 59. A game system as recited in claim 55 wherein there are at least two  
23 displays, one of the displays for viewing by the dealer, and another of the displays for  
24 viewing by the players.

1           60.    A game system as recited in claim 55 wherein the game system includes  
2 a table-top unit which allows a dealer to deal cards about the table-top unit.

3           61.    A game system as recited in claim 55 wherein the display lights are  
4 along side edges of the tabletop unit.

5           62.    A game system as recited in claim 55 wherein the game system further  
6 includes tabletop markings which associate different portions of said array of display  
7 lights with associated player table positions.

8           63.    A game system as recited in claim 55 and further comprising:  
9 an electronic dealer counter for registering a dealer count value indicating the  
10 number of dealer jackpot tally events experienced by the dealer; said dealer jackpot  
11 tally events being an event defined by rules of a particular blackjack game and are  
12 countable for purposes of awarding one or more bonuses;

13 means for selectively incrementing the dealer counter to change the dealer  
14 count value if the dealer has experienced a dealer jackpot tally event in the previous  
15 hand;

16 means for zeroing the dealer counter to a zero dealer count value if the dealer  
17 has not experienced a dealer jackpot tally event in the previous hand;

18 said display being responsive to the dealer counter to display the dealer count  
19 value.

20           64.    A game system as recited in claim 63 and further comprising:  
21 a dealer key which is operated to indicate that the dealer has experienced a  
22 dealer jackpot tally event;

23 said means for selectively incrementing the dealer counter being responsive  
24 to the dealer key to increment the dealer count value.

1           65.    A game system as recited in claim 63 wherein the means for zeroing  
2 includes an end-of-hand device which is manually operable to signal the end of each  
3 hand.

4           66.    An electronic retrofit tabletop game system for mounting upon a  
5 blackjack table to allow playing an enhanced blackjack or casino twenty-one card  
6 gambling game, comprising:

7               a central module which rests upon an upper surface of the blackjack table;

8               a plurality of electronic player counters for registering multiple player count  
9 values including at least one player count value for each player, the player count  
10 values indicating the number of consecutive player jackpot tally events experienced  
11 by a particular player; said player jackpot tally events being an event defined by rules  
12 of a particular blackjack game and are countable for purposes of awarding one or  
13 more player jackpot bonuses;

14              a plurality of player keys mounted upon the central module for selectively  
15 incrementing the player counters to change player count values for players who have  
16 experienced a player jackpot tally event;

17              means for zeroing the player count values of players who have not experienced  
18 a player jackpot tally event;

19              an electronic dealer counter for registering a dealer count value indicating the  
20 number of consecutive dealer jackpot tally events experienced by the dealer; said  
21 dealer jackpot tally events being an event defined by rules of a particular blackjack  
22 game and are countable for purposes of awarding one or more bonuses;

23              means for selectively incrementing the dealer counter to change the dealer  
24 count value if the dealer has experienced a dealer jackpot tally event;

1 means for zeroing the dealer counter to a zero dealer count value if the dealer  
2 has not experienced a dealer jackpot tally event;

3 a plurality of player status displays which are connected to receive information  
4 from the plurality of electronic player counters to display the player count values;

5 at least one dealer status display which is connected to receive information  
6 from the electronic dealer counter to display the dealer count value;

7 a table-top unit having an array of display lights thereon.

8 67. A game system as recited in claim 66 wherein the tabletop unit includes  
9 display lights which are along side edges thereof.

10 68. A game system as recited in claim 66 and further comprising tabletop  
11 markings which associate different portions of said array of display lights with  
12 associated player table positions.

13 69. A game system according to claim 66 and further comprising an  
14 embankment wall forming part of the central module which is arranged about the  
15 dealer position; said status displays being upon said embankment wall.

16 70. A game system according to claim 66 wherein said player keys are  
17 mounted upon the central module in positions adjacent to player seating locations.

18 71. A game system according to claim 66 and further comprising at least  
19 one side module having displayed information thereon.

20 72. A game system according to claim 66 and further comprising at least  
21 one side module having an electronic display along a front surface thereof.

22 73. A game system according to claim 66 and further comprising port and  
23 starboard side modules connected to the central module and having displayed  
24 information thereon.



1           74.    A game system according to claim 66 and further comprising port and  
2 starboard side modules connected to the central module; said port and starboard side  
3 modules having electronic displays along front surfaces thereof.

4           75.    A game system for playing the card game blackjack or casino twenty-  
5 one, comprising:

6           a plurality of electronic player counters for registering multiple player count  
7 values for a plurality of players, said player count values indicating the number of  
8 player jackpot tally events experienced by a particular player; said player jackpot tally  
9 events being an event defined by rules of a particular blackjack game and are  
10 countable for purposes of awarding one or more player jackpot bonuses;

11           means for selectively incrementing the player counters to change player count  
12 values for players who have experienced a player jackpot tally event;

13           means for zeroing the player count values of players who should have their  
14 player count values changed to zero;

15           at least one display for displaying at least one player count value;

16           at least one video display which displays the cards played and at least one  
17 player count value.

18           76.    A game system as recited in claim 75 and further comprising:

19           an electronic dealer counter for registering a dealer count value indicating the  
20 number of dealer jackpot tally events experienced by the dealer; said dealer jackpot  
21 tally events being an event defined by rules of a particular blackjack game and are  
22 countable for purposes of awarding one or more bonuses;

1 means for selectively incrementing the dealer counter to change the dealer  
2 count value if the dealer has experienced a dealer jackpot tally event in the previous  
3 hand;

4 means for zeroing the dealer counter to a zero dealer count value if the dealer  
5 has not experienced a dealer jackpot tally event in the previous hand;

6 said display being responsive to the dealer counter to display the dealer count  
7 value.


**REMARKS**

The remaining and newly submitted claims are believed patentable over the prior art. Claims 55-76 were ruled patentable in the International Preliminary Examination Report issued in PCT/US95/06064. Original claims 1-54 were ruled patentable in the Examination Report issued in PCT/US95/12908. Copies of both Examination Reports are enclosed for the Examiner's convenience.

It is believed that the case is in full condition for allowance. Early favorable action is requested.

Respectfully submitted,

Dated: 10 Sept. 1997

By:   
Randy A. Gregory  
Reg. No. 30,386

DESCRIPTION**BLACKJACK GAME SYSTEM AND METHODS**Technical Field

This invention relates to game systems and methods for playing the casino card game  
5 alternatively called blackjack, casino twenty-one, or simply twenty-one.

Background Art

The card game twenty-one or blackjack is a very popular card game. It is particularly  
popular as a casino card game involving betting. In casinos the house holds the dealer hand.  
In cardrooms, the house often by law is prohibited from holding the dealer hand, and one  
10 of the other players is dealer. The basic object of the game is to obtain a combined card  
count which beats the count of the dealer without going over twenty-one. The game is  
played with a common card deck or multiple decks having fifty two cards in four suits. Each  
suit has an ace, numerically indexed cards from two to ten, and the face cards. The face  
cards are jacks, queens and kings. Multiple decks can be combined together.

15 In the play of blackjack the dealer initially deals two cards to each player and the  
dealer. The cards are dealt one at a time around the table. The initial two cards to the  
players are either dealt both facedown or both faceup, depending upon the rules of the  
particular casino or cardroom involved.

The dealer receives one card faceup and the other initial card facedown. The faceup  
20 card is also called the "upcard". The face-down card is also called the "hole card". An initial  
wager is placed before dealing the first two cards. After the first two cards are dealt to all  
players, each player is offered a variety of options including: standing, hitting, splitting and  
doubling down. The player directs the dealer to deal zero, one or more additional cards to  
that particular player. Limits of betting, rules, and play vary between gaming establishments.  
25 If the player's total hand count exceeds twenty-one, then the player loses and this is often  
called a "bust". If the player stands with cards which count a total of twenty-one or less, then  
he is still in and the next player makes similar decisions about betting and additional cards.  
The dealer plays last and is instructed by the house to hold when a certain count is achieved,  
typically 17 or higher.

30 The best possible hand occurs when a player or dealer has a ten-count card and an  
ace after receiving the first two cards. This hand is referred to alternatively as a "blackjack"  
or "natural". A natural hand is a winning hand unless the opposing dealer or player also has  
a natural, in which case the play is called a push and neither the player or dealer involved  
lose their bet or collect from the other. A player who is dealt a natural hand is typically  
35 entitled to a bonus, such as equal to one and a half times the player's bet. All players lose  
if the dealer is initially dealt a natural hand, unless a player also has a natural. This is true

except in the case when the player has taken what is called "insurance" (an amount usually equal to half the player's original bet).

A hand exceeding twenty-one is referred to as a "bust" or "bust hand" for both players and dealers. Players who are still in play win the hand when a dealer goes bust. The dealer  
5 wins when a player busts.

Blackjack has become one of the most popular casino card games. However, in many casinos it does not have the same popularity as gambling attractions which offer large jackpots, for example slot machines. In blackjack, winnings for each hand are limited to the amount wagered or a small multiple of the players' bets. This is in contrast to slot machines  
10 which can often be played for a chance of winning very large jackpots.

Some casinos have implemented jackpots in the game of blackjack. For instance, one blackjack variation awards a jackpot to players receiving four like value cards in the same hand. Another variation offers a jackpot for players receiving, in a single hand, seven cards which total twenty-one. These approaches have not been commercially significant. The lack  
15 of response has apparently been due to the absence of any logical relationship between the game of blackjack as it is normally played and the events which trigger such a jackpot. The lack of response may also be due to the infrequency of such jackpot events which is needed by the casino to make it possible to offer the jackpot.

Jackpots for blackjack have also been impeded by the difficulty in finding a jackpot  
20 event which is of sufficient interest to players and of a sufficiently low probability that the casino can afford to pay a jackpot on that event.

A related problem is that prior art card games offering jackpots are limited in their flexibility to offer different types of jackpots. In order to attract players, it is desirable to display large jackpot dollar amounts. However, these large jackpots are by necessity  
25 relatively infrequent events. Thus if a card game picks four seven cards as a jackpot hand, they have used an infrequent event which does not hold player attention. Thus there is a need for a card game system which can offer both large infrequent jackpots and smaller more frequent jackpots which will better hold the player's desire to continue playing the game.

The inventive game system and methods described below are revolutionary in  
30 providing a blackjack or other card game which allows both large infrequent jackpots and smaller more frequent jackpots to be offered. It further allows a casino to offer liberalized blackjack rules. This is accomplished without sacrificing the desirable aspects of playing blackjack which have made the game so popular.

#### **Brief Description of the Drawings**

35 Fig. 1 is a top view of a game system in accordance with a preferred embodiment of the invention.

Fig. 2 is a front view of the game system shown in Fig. 1.

Fig. 3 is an enlarged view of a dealer console in accordance with a preferred embodiment of the invention.

Fig. 4 is an enlarged view of a player console in accordance with a preferred  
5 embodiment of the invention.

Fig. 5 is a simplified block diagram of a preferred control system for the game system of Fig. 1.

Fig. 6 is a simplified block diagram of a player console control circuit in accordance with a preferred embodiment of the invention.

10 Fig. 7 is a block diagram of a preferred control unit in accordance with the invention.

Fig. 8 is a block diagram of a preferred dealer console control circuit in accordance with the invention.

Figs. 9 and 10 are block diagrams showing a preferred player console control circuit in accordance with the invention.

15 Fig. 11 is a top plan view of an alternative game system according to this invention.

Fig. 12 is a front elevational view of a blackjack table fitted with the alternative game system shown in Fig. 11.

Fig. 13 is a top plan view of a further alternative embodiment game system of this invention mounted upon a blackjack table.

20 Fig. 14 is a top plan view of a still further alternative embodiment game system module according to this invention mounted upon a blackjack table.

Fig. 15 is a top plan view similar to Fig. 14 also showing cards, betting chips, and colored tabletop markings which aid in player interpretation of the game system module in combination with the table covering design.

25 Fig. 16 is an enlarged top plan view of the game system module shown in Figs. 14 and 15 in isolation from other parts of the game system.

Fig. 17 is a side elevational view of the game system module shown in Fig. 16. The opposite side view is a mirror image of this view.

Fig. 18 is a rear elevational view of the game system module shown in Fig. 16.

30 Fig. 19 is a front elevational view of the game system module shown in Fig. 17.

Fig. 20 is a schematic block diagram illustrating a preferred electronic construction used in the circuitry included as part of the game system module of Fig. 16.

Fig. 21 is a front elevational view of a preferred video card game apparatus incorporating a novel game system according to this invention.

**Best Modes for Carrying Out the Invention and Disclosure of Invention**

The inventions described herein define novel card games and methods. The card game is most preferably blackjack. The novel games can pay attractive jackpots based upon sequential occurrences of jackpot triggering events. These jackpot triggering or jackpot tally events are counted to provide player and dealer count values which must achieve a threshold value to result in a jackpot award. The jackpot tally events are most preferably required to occur in a sequence of consecutive hands. The typical consecutive jackpot tally events are dealer busts and consecutive non-dealer player natural hands (blackjack hands). The natural hands of the player are winning hands. The busts of the dealer are losing hands.

The invention can further include having several blackjack tables which share a common jackpot, thereby increasing the size of available jackpots.

As in conventional blackjack, a game played in accordance with the invention involves a dealer and at least one non-dealer player. A plurality of non-dealer players are typically involved but only one non-dealer player is necessary. One preferred embodiment of the invention described herein accommodates up to seven players, in addition to the dealer.

The game includes dealing a series of card hands to each player and to the dealer in accordance with common blackjack playing procedures. The hands are dealt by initially dealing two rounds of single cards to the dealer and each non-dealer player, thus giving each player two cards.

The game includes counting and maintaining a player count value for the players. The player count values indicate the current number of player jackpot tally events which the player has to his credit. The jackpot tally events or jackpot hands are preferably credited in serially consecutive runs, such as serially consecutive occurrences of a natural or blackjack hand. Other events can alternatively count toward a jackpot count sufficient to produce a jackpot award. Two ten cards might be an alternative jackpot tally event hand, which when obtained consecutively lead to a jackpot award. Alternatively, the non-dealer players may be given a jackpot tally count when the dealer has a natural hand. This could be preceded or followed by one or more player natural or naturals leading to a jackpot award. A further possible player jackpot tally event might be attributable to a player's jackpot count when the player obtains a total card count of twenty or twenty-one, even though more than the initial two cards were required to produce the twenty-one hand count.

The game also includes counting or otherwise maintaining a dealer count value which indicates the number of consecutive bust or other dealer event jackpot hands dealt to the dealer. These dealer jackpot tally events can include a dealer bust hand or a dealer natural hand. Other dealer jackpot tally events are also possible. Alternatively, dealer events such

as busts can be credited to the counts of players or used to offer increased jackpots for non-dealer players during the next consecutive hand or other subsequent play.

The counting steps are preferably accomplished by providing at least one player counter and a dealer counter. The counters are preferably electronic counters capable of  
5 registering multiple jackpot count values for multiple players and the dealer.

After dealing the initial two cards to himself and each player, the dealer identifies all players who have been dealt natural or other jackpot hands in the current hand being played. The dealer then increments the player count values of all players identified as having been dealt natural or other jackpot-count hands. In another embodiment the dealer  
10 increments after all hands are fully played out. The hand is played out with the remaining players, and the dealer increments the dealer count value if the dealer is dealt a bust hand or other dealer tally jackpot hands.

The game also preferably includes zeroing the player count values of all players not identified as having been dealt natural or other player jackpot count hands in the current  
15 hand. Additionally the game includes zeroing the dealer count value if the dealer has not been dealt a bust or other dealer jackpot count hand in the current hand. An end-of-hand device is advantageously operated by the dealer at the end of each hand to automatically initiate the zeroing steps.

The preferred methods according to this invention further include awarding a bonus  
20 or jackpot, referred to as a player bonus, to any player whose player count value meets or exceeds a predefined player count value threshold. For instance, a first natural bonus of perhaps \$50 is awarded to any player whose player count value meets or exceeds a first predefined player count value threshold of three. For example, this count indicates that the player has been dealt at least three consecutive natural card hands. A second natural bonus  
25 of perhaps \$500 is awarded to any player whose player count value meets or exceeds a second predefined player count value threshold of four. This indicates that the player has been dealt four consecutive natural card hands. Progressively increasing player bonuses are awarded for correspondingly increasing player count values.

In a similar manner, the preferred methods of the invention include awarding a bonus  
30 or jackpot, referred to as a "bust" or dealer jackpot bonus, to all the players at a particular table when the dealer jackpot tally event count exceeds a predefined dealer jackpot count value threshold. For instance, a first bust bonus of \$50 is awarded to all players when the dealer jackpot count value meets or exceeds a first predefined dealer count value of five. This indicates that the dealer has been dealt five consecutive bust card hands. A second bust  
35 bonus of \$100 is awarded to all active players when the dealer jackpot count value meets or exceeds a second predefined dealer count value of six. This indicates that the dealer has



been dealt six consecutive bust card hands. Progressively increasing bust bonuses are awarded for correspondingly increasing dealer count values.

Because of the statistically low probability of any player being dealt consecutive natural hands, or of the dealer being dealt consecutive bust hands, relatively large bonuses or jackpots can be provided. It is believed that jackpots of up to a million dollars could be offered in conjunction with a game played in accordance with the invention. Furthermore, it is believed that the presence of large jackpots, in addition to the normal winnings of blackjack, will be attractive enough to allow casino operators to collect a small per hand surcharge or "ante" for each hand of blackjack played in accordance with the methods of this invention. Such an ante could be used to fund the jackpots and can also allow more liberalized blackjack rules during each hand. Alternatively, the predetermined bonus count amounts can be set to assure a suitable improved margin for the casino.

Figs. 1 and 2 show an improved blackjack table in accordance with a preferred embodiment of the invention, generally designated by the reference numeral 10. Table 10 includes a tabletop 12 having a conventional felt playing surface. Table top playing surface 12 can be provided with conventional markings corresponding to seven player positions 14 arranged in an arc about a dealer position 16. Table 10 also includes a chip tray 18 for storing gaming chips. The table is supported by a pedestal 17.

Table 10 includes two status displays which are connected to display player jackpot count values and the dealer jackpot count values. In a preferred version, the player count values correspond to the number of consecutive natural hands dealt to the players. The dealer count values corresponding to the number of consecutive bust hands dealt to the dealer. One of the displays is positioned for viewing by the dealer, preferably in the form of a dealer console 20. The other display is advantageously positioned for viewing by the players, such as in the form of player console 22. Both of the status displays are advantageously mounted to playing surface 12. Dealer and player consoles 20 and 22 are provided to monitor and display the current status of the game. Specifically, the consoles display the current number of consecutive natural hands which have been dealt to each player and the current number of consecutive bust hands which have been dealt to the dealer. Dealer console 20 additionally provides input functions to allow the dealer or operator to signal the occurrence of natural or bust hands.

Fig. 3 shows dealer console 20 in detail. It is mounted flush with playing surface 12, facing upwardly, preferably at a position adjacent to the dealer. It includes a diagrammatic representation of a blackjack table, including a plurality of numeric indicators corresponding to the dealer and maximum number of players. Seven indicators 24 are arranged in an arc to correspond to the seven player positions at the blackjack table. An eighth indicator 25,

positioned at or near the centerpoint of the arc, corresponds to the dealer's position. The indicators are positioned on the face of console 20 in a layout simulating the arrangement of the actual dealer and players relative to table 10. Each numeric indicator is advantageously a seven-segment LED (light emitting diode), capable of displaying a single  
5 digit in the range of zero through nine.

Dealer console 20 further comprises a player key 26 for each player. Each player key 26 is manually operable to indicate or signal that the player has been dealt a natural or other jackpot hand. More specifically, each player key 26 is a membrane-type switch which is depressible by the dealer to increment an individual player's count value when said  
10 individual player has been dealt a natural hand. Each player key is positioned adjacent a numeric indicator. A numeric indicator 24 and a player key 26 are thus positioned to correspond to each player. Dealer console 20 also includes a dealer key 28 which is depressible or otherwise manually operable to indicate or signal that the dealer has been dealt a bust hand, and to increment the dealer's count value when the dealer has been dealt  
15 a bust hand. Dealer key 28 is positioned adjacent numeric indicator 25. Appropriate legends are printed on the keys. For instance, the player keys are labelled "1" through "7". The dealer key is labelled "D". The player keys and, dealer key 28 are preferably membrane-type switches. Capacitive or other types of keys or switches can also be used to allow the dealer to signal the occurrence of player jackpot and dealer jackpot hands.

20 Finally, dealer console 20 includes a pair of locking keyswitches 30 and 32. The functions of these keyswitches will be explained in more detail below. In general, keyswitches 30 and 32 are operable by a floor manager and by a pit boss, respectively, to reset the game control circuits or to implement other system control functions.

Fig. 4 shows player console 22. Console 22 is advantageously adapted for mounting  
25 to table 10 by a pair of mounting struts 27. It is positioned to face away from the dealer and, toward the players. Player console 22 includes a numeric indicator 34 for each player, arranged in an arc similarly to indicators 24 of dealer console 20. Player console 22 also includes a numeric indicator 35 for the dealer, positioned centrally within of the arc formed by numeric indicators 34. Console 22 does not include player keys or a dealer key. The  
30 numeric indicators of player console 22 are preferably similar or identical to the indicators used in dealer console 20. However, the dealer and player displays are oriented oppositely with regard the arc direction to reflect the different perspectives of the table as viewed by players and the dealer. Because the indicators are arranged like the players about table 10, players can immediately associate each of the indicators with a specific player or dealer  
35 position.

Player console 22 also preferably includes a programmable signboard or textual display 36. Programmable signboard 36 is of a type which can be controlled through a digital communications port. It is preferably a matrix-type display, having individual pixels which are illuminated or activated to present selected messages across the top of player console 22.

5 Signboard 36 is capable of forming scrolling or flashing messages for added visual impact and to serve as an attraction to draw players to the game system.

While inexpensive forms of dealer and player consoles are shown and described, variations are of course possible. For instance, it may be desirable in some situations to utilize a single matrix or pixel-type display, such as commonly used in conjunction with  
10 personal computers, in place of the discrete numeric indicators of each status display. Such a display would be controlled by software to display individual count values in the desired arrangement. A display such as this might also incorporate "touch" input features, so that the dealer could signal natural or bust hands by simply touching a designated area of the display rather than discrete keys. A rectangular matrix display could also be programmed to  
15 incorporate the textual display or signboard discussed above. Alternatively, some components of the consoles, such as the numeric indicators, might be physically positioned around the table, rather than grouped as described above.

In addition to the status displays, table 10 also advantageously includes an end-of-hand device 38 (Fig. 1) which is positioned for manual operation by the dealer at the end  
20 of each hand to signal the end of the hand. End-of-hand device 38 is preferably a conventional poker slide into which the ante chips from the players deposited before each hand. At the end of the hand, the dealer operates the poker slide to accept the deposited chips. The poker slide includes a sensor or switch (not shown) which is connected to the control unit 40 in order to zero the player count values of players who were not dealt natural  
25 hands in the previous hand. It also serves to trigger zeroing of the dealer count value if the dealer was not dealt a bust hand in the previous hand.

Fig. 5 shows a simplified block diagram of a preferred control system for the game system described above. It comprises three units: a programmable control unit or controller 40, a dealer console circuit 42, and a player console circuit 44. In actual practice, control  
30 unit 40 is physically incorporated with dealer console circuit 42. For purposes of explanation, however, control unit 40 and dealer console circuit 42 are described below as two separate circuits. Either configuration is acceptable.

Control unit 40 is connected to dealer console circuit 42 by a number of individual parallel lines, collectively referenced by the numeral 46. Control unit 40 communicates with  
35 player console circuit 44 through first and second serial signals 48 and 50. As shown in

Fig. 6, first serial signal 48 is connected from control unit 40 to programmable signboard 36 of player console 22. Second serial signal 50 is connected from control unit 40 to a numeric indicator control circuit 52. Programmable signboard 36 is a conventional commercially available product which can be commanded by control unit 40 to display various textual  
5 messages in a variety of formats. Numeric indicator control circuit 52 is a custom circuit, described below, which allows control unit 40 to command player console 22 to display the player count values and the dealer count value. A third, optional serial signal 51 can be used to communicate with a master or slave blackjack table as discussed below.

Control unit 40 is preferably a microprocessor-based logic circuit, programmed to  
10 monitor the player and dealer keys and to control the indicators and displays of game table 10. It is connected to command the numeric indicators of dealer console 20 and player console 22, as well as to command programmable signboard 36 through first serial signal. It is also connected to be signalled by the player keys, the dealer key, and the end-of-hand device. More specifically, control unit 40 is programmed to provide and maintain a plurality  
15 of counters or counter registers. A player counter is maintained for each player and a dealer counter is maintained for the dealer. Each player counter counts and registers the player count value for a particular player. The dealer counter counts and registers the dealer count value.

As discussed above, the player count values indicate the number of consecutive  
20 natural hands dealt to individual players. The dealer count value indicates the number of consecutive bust hands dealt to the dealer. The counters are preferably maintained in one or more microprocessor registers or in read/write memory associated with a microprocessor. Dealer console 20 and player console 22 are connected to receive information from the player and dealer counters and to display such information to the players and the dealer.

25 Control unit 40 might alternatively be designed with circuit elements other than microprocessor-related components. For instance, control unit 40 could advantageously be implemented with discrete logic gates or with programmable gate arrays. However, a microprocessor-based system allows a degree of flexibility which is desirable as compared with other types of circuits.

30 Regardless of the specific means of implementation, control unit 40 forms means for keeping a count and selectively incrementing individual players' player count values in response to operating the player keys corresponding to said individual players. Control unit 40 also forms means for incrementing the dealer count value in response to operating the dealer key. Additionally, control unit 40 forms means for zeroing, at the end of each hand,  
35 the count values of players which were not dealt a natural hand in the previous hand. It also serves as a means for zeroing, at the end of each hand, the dealer count value if the dealer

was not dealt a bust hand in the previous hand. Said zeroing functions are advantageously performed in response to operating end-of-hand device 38 at the end of each hand.

Furthermore, control unit 40 is programmed and forms means for displaying the dealer count value and the player count values of all the players. In the preferred  
5 embodiment of the invention, control unit 40 is further programmed to command programmable signboard 36 of dealer console 22 to indicate the award of the natural and bust bonuses discussed above for consecutive natural or bust hands. Programmable signboard 36 can also be used to display other messages, such as current jackpot amounts, attractions messages, or other useful information.

10 Fig. 7 shows control unit 40 in more detail. It comprises a programmable data processor or microprocessor 60, associated with program memory 62 and data memory 64. Program memory 62 typically comprises a read-only memory or erasable read-only memory. Data memory 64 typically comprises read/write memory. Data memory 64 is preferably non-volatile memory such as battery-backed memory. The various components of control unit  
15 40 communicate through a conventional address/data bus 66.

Control unit 40 includes three conventional serial port interface chips or integrated circuits, designated in Fig. 7 by the reference numerals 67, 68, and 69. These chips provide three serial ports, corresponding to serial signals 48, 50, and 51 of Fig. 5. First and second serial signals 48 and 50 are connected to player console 22. Third serial signal 51 is intended  
20 to be used for communications with a host computer or other blackjack tables as described below.

Control unit 40 also includes three parallel I/O chips, designated in Fig. 7 by the reference numerals 70, 71, and 72. The first two I/O chips 70 and 71 each accept eight inputs. The third I/O chip 72 has eight output lines.

25 Fig. 8 shows dealer console circuit 42, which includes numeric indicators 24 and 25. Each numeric indicator comprises a conventional LED indicator in combination with a discrete control chip or integrated circuit. The numeric indicators are multiplexed to receive a common four bit binary command signal, comprising the individual signals D01, D02, D04, and D08. D01, D02, D04, and D08 are produced by I/O chip 72 (Fig. 7), in response to  
30 commands from microprocessor 60. Each indicator also accepts one of a set of eight chip select signals designated SEL1-SEL8. SEL1-SEL8 are generated by a three-to-eight decoder 78 which is driven by a set of dealer console select lines DSEL1-DSEL3. DSEL1-DSEL3 are produced by I/O chip 72 (Fig. 7), again in response to commands from microprocessor 60. Microprocessor 60 is programmed to command numeric indicators, through I/O chip 72.  
35 to display the player count values and the dealer count value.

Fig. 8 also shows player keys 26, dealer key 28, and keyswitches 30 and 32. Each of these switches has a first terminal connected to ground, and a second terminal connected to an input of I/O chip 70 or 71. The player and dealer keys are connected to I/O chip 71 through signal lines DSW1 through DSW8. Keyswitches 30 and 32 are connected to I/O chip 70 through signal lines KSW1 and KSW2. End-of-hand device 38 (shown only in Fig. 1) is connected to an input of I/O chip 70 through an input signal EOH (Fig. 7).

Keyswitches 30 and 32 are used to alter the operating mode of the system for providing control functions. For instance, one of the keyswitches is operable by a floor manager to allow the floor manager to adjust counter totals. When activated, this keyswitch allows individual counters to be selectively incremented by repeatedly depressing the appropriate player or dealer keys. The other of the keyswitches is operable by a casino pit boss to enable other control functions such as specifying jackpot amounts and display modes. The player and dealer switches are used to input the appropriate information.

In addition to the indicators and switches discussed above, control unit 40 includes five mode switches, labelled 80, connected to inputs of I/O chip 70. These switches are used to select operating characteristics of the gaming system. It is contemplated that mode switches 80 will be used primarily to specify to microprocessor 60 whether game table 10 should operate in a stand-alone, master mode or as a slave to another table or to a master computer. When acting as a slave, jackpot amounts would be controlled by a master table or computer, and table 10 would report game status to the master table or computer. This would allow a plurality of tables to share a common jackpot, and would allow monitoring of game status from a central location. Mode switches 80 are also used to specify the address of game table 10 when it is operating as a slave. Other functions might be associated with mode switches 80 in the future.

Figs. 9 and 10 show numeric indicator control circuit 52. Numeric indicator control circuit 52 is nearly identical to the combination of control unit 40 and dealer console circuit 42, shown in Figs. 7 and 8, except that it includes only a single serial interface chip and a single parallel I/O chip, and it does not include any switches. Thus, numeric indicator control circuit 52 comprises a programmable data processor or microprocessor 90, associated with read-only program memory 92 and read/write data memory 94. The components of numeric indicator control circuit 52 communicate through a conventional address/data bus 96. Numeric indicator control circuit 52 furthermore includes a conventional serial port interface chip or integrated circuit 96, and a parallel I/O chip 98. I/O chip 98 has eight output lines.

As shown in Fig. 10, numeric indicator control circuit 52 also includes numeric indicators 34 and 35. Each numeric indicator comprises a conventional LED indicator in combination with a discrete control chip or integrated circuit. The numeric indicators are

5 multiplexed to receive a common four bit binary command signal, comprising the individual signals P01, P02, P04, and P08. P01, P02, P04, and P08 are produced by I/O chip 98 (Fig. 9), in response to commands from microprocessor 90. Each indicator also accepts one of a set of eight chip select signals designated SEL1 through SEL8. SEL1 through SEL8 are  
10 generated by a three-to-eight decoder 99 which is driven by a set of player select lines PSEL1 through PSEL3. PSEL1 through PSEL3 are produced by I/O chip 98 (Fig. 9), again in response to commands from microprocessor 90. Microprocessor 90 is programmed to command numeric indicators 34 and 35, through I/O chip 98, to display the player count values and the dealer count value in response to serial commands from control unit 40 through serial signal 50.

The game system described retains all the features of conventional casino blackjack. In addition, it provides variety jackpot features or different jackpot possibilities. The game system, as a result, is more exciting to play than conventional blackjack. When playing in accordance with the methods of the invention, players have the hope not only of winning  
15 individual hands, but of also winning jackpots based on consecutive hands or other sequential jackpot tally events. The increase in potential winnings is likely to make the game even more popular than conventional forms of blackjack. Furthermore, the added desirability of potential jackpot winnings should make it possible to collect hand surcharges or antes and to thus increase revenues of gaming establishments. Additionally, the procedures may allow  
20 more liberalized rules of play.

Figs. 11 and 12 show an alternative gaming system 200 according to this invention. Gaming system 200 is an electronic retrofit tabletop game system constructed to be mounted upon a standard blackjack table 10. Table 10 is as described above in connection with the embodiment shown in Fig. 1, including six player positions 14 and playing surface 12.  
25 Gaming system 200 includes a first or central module 201 and two side modules 202 and 203. Central module 201 has a low profile and is positioned in a central location upon the blackjack table adjacent to the dealer's position 16. The port side module 202 is at the dealer's left and the starboard side module 203 is at the dealer's right. Central module 201 includes a chip tray 218 adjacent the dealer position which has a plurality of receiving  
30 troughs for holding gaming chips (not shown).

The central module 201 preferably includes a central module housing 205. Housing 205 has a top member with an upper surface 206. Housing 205 also has a lower or bottom member 207 which rests upon the upper playing surface 12 of gaming table 10. The top and bottom members are joined by a perimeter embankment or curb wall 209. The leading or  
35 front edge 208 of curb wall 209 rests upon the upper playing surface of gaming table 10. The curb is preferably constructed so as to provide a front wall which is sloped at a suitable

angle, such as in the range of 30-60° from horizontal. This inclined or sloped construction provides improved utility for handling of cards by the dealer, reduced risk of injury to the dealer's hands and arms when working over the curb, and improved visibility for the displays mounted thereon. As shown in Figs. 11 and 12, the top edge of the curb is preferably flush  
5 with the upper surface of the central module top member 206.

Housing 205 defines an interior cavity within which are mounted various electronic components and wiring associated with the control system 40 and displays, switches and other components which are described more specifically elsewhere herein. The housing of central module 205 is constructed so as to provide a mechanically integrated unit containing such  
10 internal components. Such a central module can be easily moved to a gaming table and placed in the position shown in Fig. 11.

A series of indicator displays 210 are arranged along curb 209. Displays 210 include six player displays 211-216. A dealer display 217 is located in the center. Displays 210 preferably include an array of individually controllable light bars. The light bars for displays  
15 210 preferably extend along the front face of curb 209 and also along the upper surface 206 to thereby provide good visibility for the dealer from above and players from the front. As shown, each display light bar can be individually lit to indicate from one to five consecutive jackpot hands. The display is unlit when there has not been a jackpot hand in the preceding play for which the player still has credit. In the case of dealer display 217 the light bars can  
20 be lit to indicate one to five consecutive dealer bust hands.

Central module 205 also preferably includes player keys 223 and dealer key 224. Keys 223 and 224 are similar in function to keys 26 and 28 described above. Keys 223 and 224 are conveniently positioned for activation by the dealer just after handling cards to and from the players.

Central module 205 is also preferably provided with a deposit slot 242 which allows  
25 the dealer to deposit cash used by players to purchase gaming chips. Deposit slot 242 communicates through the central module to provide money pass through into a corresponding deposit slot (not shown) formed through the blackjack table 10.

As shown, the preferred gaming system 200 further includes a port side module 202.  
30 Port side module 202 is adapted to connect with a back wall 245 of the central module 205. Side module 202 connects with the central module in a manner which places the side module in an upstanding orientation. This is advantageously accomplished using fasteners (not shown). Side module 202 is also supported upon the surface of gaming table 10. The outboard end of the side module can also be attached to the table using a suitable clip (not  
35 shown) which slides under the padded perimeter of the blackjack table.



Gaming system 200 also preferably includes a starboard side module 203. Starboard side module 203 is similar in construction to port side module 202 in several respects. It is preferably fastened to the central module and is supported upon the gaming table in similar fashions. It additionally includes a dealer control panel 251 having a series of dealer controls 5 252. Dealer controls 252 include the key switches, similar to switches 30 and 32 described above. Additional controls are shown merely to suggest possible controls used to operate the preferred side panel displays described below.

Side modules 202 and 203 also preferably include side panel displays 254 mounted upon the front faces 246 of the side modules. Side panel displays can be printed material 10 or electronic displays of fixed or alterable display capabilities. One embodiment includes variable electronic displays which can be scrolled to present a moving message. Another embodiment shows fixed information indicating betting ranges for the blackjack table. A still further embodiment allows a combination of fixed information on table betting ranges coupled with a scrolling or flashing display sign which presents an attracting message 15 designed to bring players to the table. Other alternative display modes are also possible. The details of particular displays 254 will vary dependent upon the particular commercially available display chosen.

The front faces 246 of side modules 202 and 203 are also advantageously provided with printed material dispensers 260 which hold printed rule pamphlets 261. Rule pamphlets 20 261 advantageously present information about the particular jackpot amounts and sequential event combinations which pay jackpots at the particular blackjack table involved.

Gaming system 200 is particularly advantageous in providing a add-on or retrofit gaming system which can be brought to an existing blackjack table and be fitted thereon with minimal expense. Once fitted, the blackjack table can then be used to perform the novel 25 gaming methods according to this invention.

Fig. 13 shows a further alternative embodiment of gaming system 300 similar to system 200. In the embodiment of Fig. 13 the central module is configured as an annular embankment or curb 301 which extends partially around the dealer position. The central module is constructed as an annular curb band or ring. An infield area 302 is within the 30 curb, and is open to expose the blackjack tabletop surface 12. The light bar displays 210 are mounted upon the annular curb-shaped central module. This construction does not require a slot 242 but instead allows a similar slot 343 already formed through the tabletop to function without impedance. Otherwise system 300 is similar to system 200 and similar reference numbers have been used in both embodiments for similar features.

Fig. 14 shows a preferred game system 400 according to this invention. Game system 400 has numerous components which are similar to other systems described above, specifically game systems 10, 200, and 300.

Table 410 is similar to table 10 but is provided with a tabletop playing surface 412 which has a special design and marking arrangement which works in conjunction with a game system central module 405 which is centrally located upon the playing surface at a central module rest location 415. Table 410 has six non-dealer player positions 421-426 and a dealer position 427. Other numbers of players are possible. Tabletop 412 has player zones 431-436 which are associated with player positions 421-426, respectively. Each player zone is demarcated by player zone boundary markings 413. The space 417 immediately in front of central module 405 is left open or can be used for prominent presentation of the game name or other information.

Adjacent to each player zone are visual leader designs or markings 441-446 which act as a direct visual tabletop indicators between the player position and associated player zone, and the corresponding player count displays 451-456 which are arranged along the sides of module 405. As shown, the visual leader markings 451-456 comprising arcuate bands which extend from the heads of each player zone toward the central module. The visual leader markings 451-456 are most preferably colored in contrast to the other portions of the player surface, and in manners which are different from the adjacent visual leader marking bands. Fig. 15 shows the visual leader bands shaded for a specific color combination, but numerous alternative color schemes are possible. Visual leader markings 451-456 also preferably include leader symbols 458 which as shown are star designs which help to direct the viewer's attention along the leader bands toward the player count displays.

Each player zone 431-436 is preferably provided with a chip betting area 438. Betting areas 438 are used to specifically provide an area of the playing surface upon which chips being bet must be placed.

Table 410 also includes a chip rack 418 and bill deposit slot 442.

Fig. 15 is similar to Fig. 14 with the additional presentation of betting chips 439 within chip betting areas 438. Also shown are playing cards 449. The visual leader markings 451 and 456 are shown shaded for the color red, markings 452 and 455 are shown shaded for the color purple, and markings 453 and 454 are shown shaded for the color green. This provides additional visual contrast between the different players' markings.

Figs. 16-19 show the preferred central game system module 405 in greater detail. Game system module 405 has a front 401 which is oriented toward the player side of table 410 during normal use. Module 405 also has a rear 402 which is normally oriented toward the dealer position 427. A first side 403 and second side 404 extend between the front and

rear of the module. A top surface 406 is advantageously provided with player keys 471-476 which correspond to player positions 421-426, respectively. Player keys 471-476 are used to increment the player count value stored in the associated player counter. As shown there is one player key which is depressed to increment one player counter. Alternatively, more  
5 than one player counter may be used in particular circumstances to count differing types of player jackpot tally events. However, for purposes of operational simplicity, the single counter, single player key construction is most preferred. Player jackpot tally events are subject to various rules of play but will typically include a player blackjack or similar winning hand; a dealer blackjack hand may be used as an equivalent, as indicated below; or a player  
10 receiving a pair of ten-count cards may also result in a player jackpot tally event.

Module 405 also preferably includes a first dealer key 477. As shown, the first dealer key 477 is used to increment the player counters. This action causes the dealer playing event, such as a dealer natural or blackjack hand, to function as a player jackpot tally event. Thus each player in the hand receives a incremental addition to his or her player count value  
15 due to the dealer having received a blackjack hand or other triggering event as determined by the rules of play. Alternatively, the dealer tally event can be used to increment a separate dealer blackjack counter (second dealer counter) which is distinct from the individual player counters.

Module 405 further preferably includes a second dealer key 478. As shown, the  
20 second dealer key 478 is used to increment the dealer bust counter (first dealer counter) which registers the dealer jackpot tally event count. The dealer receives a incremental addition to his or her dealer jackpot count value due to the dealer having received a bust hand or other triggering dealer jackpot tally event as determined by the rules of play.

Module 405 still further includes a log key 479 which functions as an end-of-hand  
25 device which is depressed or otherwise activated at the end of each hand. Under typical play the activation of the end-of-hand log key 479 will result in the zeroing processes described above being effected to reset the counters which should be reset to zero under the conditions present in that game and given the specifics of play. Log key 479 also translates temporary events to cause the appropriate player counters to be incremented in preparation  
30 for the hand.

Module 405 also includes a control key switch 480 which is adapted to receive a security key used by a dealer, pit boss or floor manager to reset or backup play of the module.

Module 405 further includes the player count displays 451-456 along the sides of the  
35 module. The player count displays shown are advantageously discrete LED (light emitting diode) elements 459 which light up as individually controlled. The player count displays

indicate player jackpot count values of 0, 1, 2, 3, 4, or 5 as shown by turning on the same number of elements. Each player count display is advantageously rendered more recognizable by an optional player count display border 409. When module 405 is placed on the table, the player count display borders 409 preferably are positioned to align with the borders between the adjacent visual leader bands 441-446 to further aid in the easy interpretation of play by all viewers.

Fig. 20 shows an electronic schematic block diagram of a preferred electronics circuitry 500 used in module 405. The preferred electronics include a main power supply 501 which is connected to a supply of alternating current power, such as a typical 110 volt AC power source. Alternatively, the AC line electrical power source and power supply 501 can be replaced by a suitable battery power source.

The output from power supply 501 preferably produces a -12 volt direct current (DC) output. This output is used to power other portions of the circuit as indicated at the symbol A. The output of power supply 501 is advantageously coupled to a second power supply 502 which produces an output which is preferably a -5 volt direct current power source indicated by the symbol B. The output of power supply 501 is also preferably coupled to a third power circuit 503 which provides integration of a battery backup circuit powered by battery 504 to preserve data during periods of power interruption. Uninterruptable 5 volt DC power is supplied to a micro-controller 510 via circuit 503. Circuit 503 also provides a reset signal to micro-controller 510 in response to a reset switch (not shown).

Micro-controller 510 is provided with a clock crystal 511 which allows the micro-controller to maintain an internal clock. Micro-controller 510 has an audio output signal which is electrically connected to an audio effects subcircuit 520. Audio effects subcircuit 520 provides audio output to a speaker 522 which provides chimes or other desired audio effects to attracts patrons, signal a winning jackpot, or provide other sounds as desired.

Micro-controller 510 is connected to two serial-to-parallel LED driver circuits 531 and 532. The outputs from circuits 531 and 532 are connected to the player count indicators 459 for displays 451-456.

Micro-controller 510 receives signals from a key pad shift register 540. Key pad shift register 540 is connected to the key switches 471-480. Signals from shift register 540 are processed in micro-controller to provide the indicated counting and zeroing functions indicated hereinabove.

Micro-controller 510 is also advantageously connected to a serial port 550 which can be used to interface the central module 405 with an ancillary display sign (not shown) but similar in construction and function to displays 22, 202, and 203 explained above.

Fig. 21 shows a further card gaming system 600 which functions in accordance with this invention. Gaming system 600 is adapted to perform the novel methods for playing card games, such as blackjack, as described herein. Gaming system 600 includes a video card game machine 601. Machine 601 includes a side unit 602 which includes a bill validator 603 and a player account and identification card reader 604. Bill validator 603 reads monetary bills and upon validation accepts the bills and posts credits to the player's account in the gaming machine. Player account and identification card reader 604 is a card reading device, such as an automated magnetically coded credit or bus-ticket-type card reader, well known in the art. Reader 604 is used to either provide an account balance to the gaming machine against which a player can charge bets, and/or provide user identification for verification and user tracking information used by the casino to monitor against gaming fraud and to better understand customer behavior and desires. Video gaming machine 600 also includes a coin insert or feed 640 which is used to insert coins in lieu of the bill validator 603 or an account card read by reader 604.

Gaming system 600 further preferably includes a main display 610 which is preferably a cathode ray tube, liquid crystal display, or similar electronically controlled display. Display 610 is used to display various information either to attract a player or for use during the play of the game. In particular for the playing of blackjack, the main display is used to show dealer cards 611 and 612 and player cards 613 and 614. Card 611 is the dealer down card and is shown blackened to indicate it is face-down. Card 612 is the dealer's up card and is shown face-up. Both player cards 613 and 614 are shown face-up.

In the upper portion is a jackpot counter display section 620 forming a part of the main display 610. Jackpot counter display has three counters pictured. The upper line 621 indicates the number of player first jackpot tally events are credited. In this case the upper line indicates the number of blackjack hands which the player has either received or been credited due to blackjack by the player or the dealer. The second line 622 of the jackpot display indicates the number of twenty-count hands received by the player which qualify as second jackpot tally events. The third line 623 indicates the number of dealer busts which are included in the dealer first jackpot tally events. In the preferred form the jackpot tally events which led to the indicated counts shown in lines 621-623 are due to qualifying events occurring in a sequential manner, most preferably in consecutively sequentially hands. Alternatively, the rules of play may make various sequential patterns qualifying events for purposes of being counted in one or more of the jackpot tally event counters. For example, consecutive sequences of any particular card hands may lead to events being tallied in the jackpot tally counters. Consecutive 20-count hands, consecutive 19-count hands, consecutive 18-count hands, multi-card (more than 2 card) 21-count hands, blackjacks of a specific suit,

red-suit blackjacks, black-suit blackjacks, and many other combinations of cards which when they occur in a defined sequential pattern over a series of played hands can lead to a jackpot threshold being met and the player receiving a jackpot payout. The sequential occurrence allows the gaming establishment to adjust the payout schedule to include both extremely high  
5 payouts for very infrequent events, and when desired or in the alternative relatively smaller jackpot payouts with greater frequency. This greatly enhances the appeal of the game to the player.

Gaming machine 600 also preferably includes a payout schedule 628. Payout schedule 628 is advantageously positioned upon the front of gaming machine 600 above the  
10 main display 610. Payout schedule 628 can either be a printed posting or can be information displayed upon a second electronic display, similar to main display 610. It is alternatively possible for the payout schedule and other information to be provided upon a portion of the main display. The main display may be made larger to accommodate the various information presented thereon.

15 In the preferred video blackjack machine 600 there is typically a single non-dealer player. Machine 600 is equipped with a series of option keys 630 which are advantageously arranged beneath the main display. Alternatively, the option keys can be provided in the form of a touch screen display having touch control options which are activated by bring a person's finger into proximity or contact at the appropriate location upon the display screen.  
20 As shown, the card gaming machine 600 is provided with key switches 631-636 which have specific functions. As shown, key 631 is used to hit the player so that another card is dealt to the player. Key 632 is used to indicate the player's choice to stand and not receive further cards. Key 633 is used to indicate the player's choice to double. Key 634 is used to split the players initial two cards and play two hands simultaneously. Key 635 is used to  
25 instruct the machine to payout any accumulated winnings. Key 636 is used to start the deal of another card hand.

Video card machine 600 also preferably includes a payout tray 650 into which is deposited coins or other winnings in response to the player's choice to payout, as indicated by activating key 635.

30 Video card gaming machine 600 also advantageously includes an attraction display 660. Display 660 is used to indicate a jackpot amount which can be machine-specific and determined in part by rules of play which are also specific to the particular machine being used.

Gaming machine 600 is constructed using previously known video card gaming  
35 machine technology adapted as needed to achieve the features and functions indicated herein. Such gaming machines are known from prior development and are commonly used

in connection with video poker, video blackjack, and other games. Such machines are suitably programmed according to this invention so as to provide the features described herein and to perform the novel methods and related processes used in this invention. Current machines have programming capability which will allow the novel games of this invention to be played thereon. Such play can be scheduled either with an ante by the player, or without an ante depending upon the desires of the gaming establishment. It is also possible to have the jackpot features of this invention apply during some games and not during others depending upon the bet placed by the player or by other optional choice.

In another preferred form of the invention the methods of playing are modified to provide another aspect of play which is herein termed a special or showdown round. There can be a singular special round or multiple special rounds. The special or showdown round is initiated by first determining whether any player has a player count value which meets or exceeds a special round player threshold amount, in which case such player becomes a special player. The status as a special player allows the special player to play in a special round or rounds of cards to be played. The particular count or other requirements for the special round player threshold will depend upon the ante, special round payouts, and other parameters of the game needed to provide a profitable operation. If profit is not the only consideration, then other factors may determine the exact special round threshold amount. In the preferred methods, the count of a player's counter indicating the number of consecutive jackpot tally events will be considered in determining whether the player has reached the special round threshold. For example a player may obtain a player count value on the player's associated player counter which equals or exceeds 5. In such an example the player would be considered a special player. Alternatively, the special round threshold could be reached using other types of counted events on a separate and distinct special round counter. However, such an alternative approach complicates the methods and they are not included in the most preferred methods used in table game versions. Video systems, such as system 600, easily can implement this type of complexity.

When a player meets or exceeds the special round threshold amount, the dealer performs by declaring that a special round threshold has been attained. In the preferred methods the special round or rounds will be played immediately after the dealer declares that a player has reached the special round threshold amount. Alternatively, the attainment of the special round threshold amount could conceivably result in a special round of play which could be delayed in some instances. However, immediate play of the special round or rounds is preferred.

In the at least one special round, a variety of rules of play can be implemented. Most typically the rules normally considered fundamental to the preferred game being

played, e.g. blackjack, are continued and special jackpot or winnings rules will apply. However, as the preferred embodiment described below will indicate, the rules changes associated with the special round can be fundamental and deviate outside normal rules.

In the preferred methods of this invention the special round involves suspending play  
5 for one or more of the players other than the special player. Typically, all players except the special player and dealer will be suspended until after the special round is completed. Alternatively, the dealer can also suspend play to the dealer; although this form is not the most preferred. It is also further alternatively possible for two players to simultaneously reach the special round threshold at the same time. In this case multiple special rounds can  
10 be done sequentially, or other modified rules could apply to allow simultaneous play by two special players.

After the dealer has declared a special round, the special player then engages in the play of the special round or rounds. In a preferred form of this invention, the special round involves playing a single round of blackjack, which preferably involves playing a single round  
15 of blackjack with the special player simultaneously playing multiple hands. The preferred special round can be a single round wherein the special player simultaneously plays the entire table (except for the dealer), for example 6 or 7 hands. Alternatively, the equivalent number of hands could be played consecutively in a series of special rounds. It is also contemplated that a series of special rounds could be dealt each providing the special player with one or  
20 more hands which are played simultaneously.

The hand or multiple hands played by the special player during the special round or rounds, are typically played in a regular fashion with most regular rules of the casino game applying. However, it is preferred that the jackpot amounts are fixed for the special round and it is anticipated that no bet or ante is required for the special round. Rather, the player  
25 receives the special round as a payoff or award for having reached the special round threshold amount. In this regard the special round acts as part or all of the player jackpot bonus for reaching a particular threshold player count value.

The methods of this invention can further include paying or otherwise awarding a special round jackpot at the conclusion of the special round or rounds. The special round  
30 jackpot is preferably dependent upon the number of special round qualifying events which have occurred. For example the methods can advantageously be practiced with the player jackpot tally events being a natural or hand count of either 20 or 21. Either of these can for convenience be referred to as a "high hand". Similarly, the special round can be practiced such that the player receives a special round player event count which is equal to the number  
35 of special round qualifying events received by the player during the special round or rounds. The special round jackpot award for a special round or rounds would thus be dependent



upon the special round player qualifying event count. For example, if the special player was dealt six hands during a special round, and the player had three hands which counted twenty and three hands that counted seventeen, then the special player's qualifying event count would be three.

5 Special round jackpot payouts could be scheduled as follows: Zero high hands - \$25; one high hand - \$25; two high hands - \$25; three high hands - \$125; four high hands - \$200; five high hands - \$500; six high hands - \$12,500. Since the special player is only playing six hands in the single special round, then only six high hands are possible.

To provide better play, and because of the preferred use of the special round as a  
10 jackpot bonus, it is also preferred that the special round carries with it some automatic cash or prize jackpot award. This award or special round automatic jackpot will be awarded as a result of playing the special round or rounds. For example, if the player count has reached a value of five and a player is declared special and a special round is played, then a minimum jackpot might be \$25. Such a minimum special round jackpot amount would, for example,  
15 apply if the special player did not receive a high hand for any of the multiple hands being played by the special player during the special round or rounds.

Methods according to this invention can further advantageously include playing the special round with both the special player and dealer being dealt hands. In such a preferred form of the invention, the special round jackpot or payout schedule can be determined in-  
20 part by considering the hand or hands of the dealer which occur during the special round or rounds being played. This is advantageously done by determining a dealer special round qualifying event count. For example, the dealer can have one or more dealer special round qualifying events. Such dealer special round qualifying events can be associated with a particular hand or hands, such as a dealer bust hand. Alternatively, it may be possible to  
25 include other dealer special hand outcomes in addition to or in lieu of a dealer bust, such as dealer blackjack natural hands. The particular dealer special round qualifying events allowed will affect the special jackpot payout schedule. In the proposed payout schedule given above, the dealer bust hands are only considered in counting the number of dealer special round qualifying events. The schedule also is based upon a single special round with  
30 multiple hands simultaneously played by the special player. Accordingly, the dealer special round qualifying event count is one if there is a bust and zero if the dealer does not bust. The payout schedule given above can be doubled for all player special round qualifying event counts, should the dealer have a bust hand and have a dealer event count of one. Other approaches are alternatively possible using a simplified or more complex matrix of events,  
35 either special round player events or special round dealer events.

In another preferred form of the invention, the suspension of one or more players during the special round can reduce interest on the part of the players who have been suspended. To offset this effect, it is desirable for the methods to also include awarding a suspended player or players a suspended player award if the special player or players receive  
5 an award. This secondary or suspended player award can be variable dependent upon the jackpot the special player wins. This maintains interest of the suspended players and places them in the position of also being an effective winner along with the special player but the awards will be significantly smaller.

The methods according to this invention can be utilized in various parts by combining  
10 one or more methods with other aspects or methods as taught herein. For example, the special round or rounds can either not be added to other methods described above, or the special round or rounds in various implementing forms can be added as an award for reaching a particular player count value. Similarly, the special round methods can be utilized on a video card game machine, such as machine 600.

CLAIMS

1. A method for playing a series of hands of the card game blackjack or casino twenty-one involving a dealer and at least one player, comprising the following steps:

providing at least one player counter which is capable of registering at least one  
5 player count value for each player, the player counters serving to register player count values  
indicating the number of player jackpot tally events which are attributable to each player;  
dealing a card hand to the at least one player;  
identifying all players who qualify for a player jackpot tally event;  
incrementing the at least one player counter to selectively increase the player count  
10 values for players identified in the prior step as qualifying for a player jackpot tally event;  
awarding a first player jackpot bonus to any player whose player count value meets  
or exceeds a first player jackpot threshold.

2. A method as recited in claim 1 wherein the player jackpot tally events include natural hands dealt to the player.

15 3. A method as recited in claim 1 wherein the player jackpot tally events include natural hands dealt to the dealer.

4. A method as recited in claim 1 and further comprising awarding a second player jackpot bonus to any player whose player count value which meets or exceeds a second player jackpot threshold; wherein the second player jackpot threshold is greater than  
20 the first player jackpot threshold and the second player jackpot bonus is greater than the first player jackpot bonus.

5. A method as recited in claim 1 wherein the step of incrementing the player count values includes manually operating a player key corresponding to each player identified as qualifying for a player jackpot tally event in the current hand being played.

25 6. A method as recited in claim 1 further comprising zeroing the at least one player counter to zero for all players not identified as qualifying for a player jackpot tally event after the current hand being played.

7. A method as recited in claim 1 and further comprising:  
providing a dealer counter which is capable of registering multiple dealer count  
30 values indicating the number of dealer jackpot tally events;  
incrementing the dealer counter to selectively increase the dealer count value if a dealer jackpot tally event occurs;  
zeroing the dealer count value to zero if a dealer jackpot tally event does not occur in the current hand being played;  
35 displaying the dealer count value;

awarding a first dealer jackpot bonus to said players when the dealer count value meets or exceeds a first dealer jackpot threshold.

8. A method as recited in claim 7 wherein the dealer jackpot tally event includes a bust hand dealt to the dealer.

5 9. A method as recited in claim 7 and further comprising awarding a second dealer jackpot bonus to all players when the dealer count value meets or exceeds a second dealer jackpot threshold; wherein the second dealer jackpot threshold is greater than the first dealer jackpot threshold and the second dealer jackpot bonus is greater than the first dealer jackpot bonus.

10 10. A method as recited in claim 7 wherein the step of incrementing the dealer count value includes manually operating a dealer key.

11. A method as recited in claim 7 and further comprising:

awarding a second player jackpot bonus to any player whose player count value meets or exceeds a second player jackpot threshold;

15 wherein the second player jackpot threshold is greater than the first player jackpot threshold and the second player jackpot bonus is greater than the first player jackpot bonus;

awarding a second dealer jackpot bonus to all players when the dealer count value meets or exceeds a second dealer jackpot threshold;

20 wherein the second dealer jackpot threshold is greater than the first dealer jackpot threshold, and the second dealer jackpot bonus is greater than the first dealer jackpot bonus.

12. A method for playing a series of hands of the card game blackjack or casino twenty-one involving a dealer and at least one player, comprising the following steps:

25 providing at least one electronic player counter which is capable of registering multiple player count values for each player, the player count values indicating the number of consecutive natural hands dealt to individual players;

providing an electronic dealer counter which registers multiple dealer count values indicating the number of consecutive bust hands dealt to the dealer;

dealing a card hand to each player and to the dealer;

30 identifying all players who have been dealt natural hands in the current hand being played;

manually operating a player key corresponding to each player identified in the prior step as having been dealt a natural hand;

manually operating a dealer key if the dealer has been dealt a bust hand in the current hand being played;

35 incrementing said at least one electronic player counter to count player count values in response to operating the player keys corresponding to said individual players;

incrementing said electronic dealer counter to count the dealer count value in response to operating the dealer key;

zeroing said at least one electronic player counter to a zero value for all players not identified as having been dealt natural hands in the current hand being played;

5 zeroing said dealer counter to zero the dealer count value if the dealer has not been dealt a bust hand in the current hand being played;

displaying the dealer count value and the player count values of all the players;

awarding a first natural bonus to any player whose player count value meets a first player jackpot threshold;

10 awarding a first bust bonus to said players when the dealer count value meets a first dealer jackpot threshold.

13. A method as recited in claim 12 and further comprising operating an end-of-hand device at the end of each hand, the zeroing steps being performed in response to operating the end-of-hand device.

15 14. A method as recited in claim 12 and further comprising awarding a second natural bonus to any player whose player count value meets a second player jackpot threshold; wherein the second player jackpot threshold is greater than the first player jackpot threshold and the second natural bonus is greater than the first natural bonus.

15 15. A method as recited in claim 12 and further comprising awarding a second bust bonus to all the players when the dealer count value meets a second dealer jackpot threshold; wherein the second predefined dealer count value is greater than the first predefined dealer count value and the second bust bonus is greater than the first bust bonus.

16. A method as recited in claim 12 and further comprising:

25 awarding a second natural bonus to any player whose player count value which meets a second player jackpot threshold;

wherein the second player jackpot threshold is greater than the first player jackpot threshold and the second natural bonus is greater than the first natural bonus;

awarding a second bust bonus to all the players when the dealer count value exceeds a second dealer jackpot threshold;

30 wherein the second dealer jackpot threshold is greater than the first dealer jackpot threshold and the second bust bonus is greater than the first bust bonus.

17. A game system for playing the card game blackjack or casino twenty-one, comprising:

35 a plurality of electronic player counters capable of registering multiple player count values for players, the player count values indicating the number of player jackpot tally events attributable to a particular player;

means for selectively incrementing the player counters to change player count values for players who have qualified for a player jackpot tally event;

means for zeroing the player count values of players who should have their player count values changed to zero;

5 at least one display for displaying at least one player count value.

18. A game system as recited in claim 17 and further comprising a player key for each player, each player key being operable to indicate that the player qualifies for a player jackpot tally event;

and wherein said means for selectively incrementing the player count values is  
10 responsive to the player keys to increment the player count values.

19. A game system as recited in claim 17 and further comprising a player key for each player, each player key being operable to indicate that the player qualifies for a player jackpot tally event;

and wherein:

15 said means for selectively incrementing the player count values is responsive to the player keys to increment the player count values;

the display includes a numeric indicator for each player, each player key being positioned adjacent a corresponding numeric indicator.

20. A game system as recited in claim 17 and further comprising a controller  
20 connected to said plurality of electronic player counters and to said at least one display; said controller being operable to analyze the player count values held by said player counters and to control said at least one display to indicate a first player jackpot bonus for any player whose player count value meets or exceeds a first player jackpot threshold.

21. A game system as recited in claim 17 wherein there are at least two displays,  
25 one of the displays being positioned for viewing by the dealer, and another of the displays being positioned for viewing by the players.

22. A game system as recited in claim 17 wherein the game system includes a table-top unit which is sufficiently small to allow a dealer to deal cards about the table-top unit.

30 23. A game system as recited in claim 17 wherein the game system includes a table-top unit having an array of display lights along side edges thereof.

24. A game system as recited in claim 17 wherein the game system includes a tabletop unit having an array of display lights along side edges thereof;

and further comprising a tabletop markings which associate different portions of said  
35 array of display lights with associated player table positions.

25. A game system as recited in claim 17 wherein the game system includes a video display which displays the cards being played and at least one player count value.

26. A game system as recited in claim 17 and further comprising:

an electronic dealer counter for registering a dealer count value indicating the  
5 number of consecutive dealer jackpot tally events attributable to the dealer;

means for selectively incrementing the dealer counter to change the dealer count value if the dealer has qualified for a dealer jackpot tally event in the previous hand;

means for zeroing the dealer counter to a zero dealer count value if the dealer has not qualified for a dealer jackpot tally event in the previous hand;

10 said display being responsive to the dealer counter to display the dealer count value.

27. A game system as recited in claim 26 and further comprising:

a dealer key which is operable to indicate that the dealer has qualified for a dealer jackpot tally event;

said means for selectively incrementing the dealer counter being responsive to the  
15 dealer key to increment the dealer count value.

28. A game system as recited in claim 26 wherein the means for zeroing includes an end-of-hand device which is manually operable to signal the end of each hand.

29. An electronic retrofit tabletop game system for mounting upon a blackjack table to allow playing an enhanced blackjack or casino twenty-one card gambling game,  
20 comprising:

a central module which rests upon an upper surface of the blackjack table;

a plurality of electronic player counters capable of registering multiple player count values for each player, the player count values indicating the number of consecutive player  
jackpot tally events attributable to a particular player;

25 a plurality of player keys mounted upon the central module for selectively incrementing the player counters to change player count values for players who have qualified for a player jackpot tally event;

means for zeroing the player count values of players who have not qualified for a player jackpot tally event;

30 an electronic dealer counter for registering a dealer count value indicating the number of consecutive dealer jackpot tally events attributable to the dealer;

means for selectively incrementing the dealer counter to change the dealer count value if the dealer has qualified for a dealer jackpot tally event;

means for zeroing the dealer counter to a zero dealer count value if the dealer has  
35 not qualified for a dealer jackpot tally event;

a plurality of player status displays which are connected to receive information from the plurality of electronic player counters to display the player count values;

at least one dealer status display which is connected to receive information from the electronic dealer counter to display the dealer count value.

5 30. A game system as recited in claim 29 wherein the game system includes a table-top unit having an array of display lights along side edges thereof.

31. A game system as recited in claim 29 wherein the game system includes a tabletop unit having an array of display lights along side edges thereof;

and further comprising a tabletop markings which associate different portions of said  
10 array of display lights with associated player table positions.

32. A game system as recited in claim 29 wherein the game system includes a video display which displays the cards being played and at least one player count value.

33. A game system according to claim 29 and further comprising an embankment wall forming part of the central module which is arranged partially around the dealer  
15 position; said status displays being positioned at least partially upon said embankment wall.

34. A game system according to claim 29 wherein said player keys are mounted upon the central module in positions adjacent to player seating locations.

35. A game system according to claim 29 and further comprising at least one side module having displayed information thereon.

20 36. A game system according to claim 29 and further comprising at least one side module having an electronic display along a front surface thereof.

37. A game system according to claim 29 and further comprising port and starboard side modules connected to the central module and having displayed information thereon.

25 38. A game system according to claim 29 and further comprising port and starboard side modules connected to the central module; said port and starboard side modules having electronic displays along front surfaces thereof.

39. A method for playing a series of hands of a card game involving a dealer and at least one player, comprising the following steps:

30 providing at least one player counter which is capable of registering at least one player count value for each player, said at least one player count value being a variable quantity, the player counters serving to register player count values indicating the number of player jackpot tally events which are countable for each player;

dealing a card hand to each player;

35 identifying all players who qualify for a player jackpot tally event;



incrementing the at least one player counter to selectively increase the player count values for players identified in the prior step as qualifying for a player jackpot tally event; displaying the player count values of all players;

awarding a first player jackpot bonus to any player whose player count value which  
5 meets or exceeds a first player jackpot threshold.

40. A method as recited in claim 39 further comprising zeroing the at least one player counter to zero for all players not identified as qualifying for a player jackpot tally event after the current hand being played.

41. A method as recited in claim 39 wherein the player jackpot tally events  
10 include winning hands dealt to the player.

42. A method as recited in claim 39 wherein the player jackpot tally events include winning hands dealt to a dealer.

43. A method as recited in claim 39 wherein the player jackpot tally events include losing hands dealt to a dealer.

44. A method as recited in claim 39 and further comprising awarding a second  
15 player jackpot bonus to any player whose player count value which meets or exceeds a second player jackpot threshold; wherein the second player jackpot threshold is greater than the first player jackpot threshold and the second player jackpot bonus is greater than the first player jackpot bonus.

45. A method as recited in claim 39 wherein the step of incrementing the player  
20 count values includes manually operating a player key corresponding to each player identified as qualifying for a player jackpot tally event in the current hand being played.

46. A method for playing a series of hands of a card game involving a dealer and at least one player, comprising the following steps:

25 providing at least one player counter which is capable of registering at least one player count value for each player, the player counters serving to register player count values indicating the number of player jackpot tally events which are attributable to each player;

dealing a card hand to the at least one player;

identifying all players who qualify for a player jackpot tally event;

30 incrementing the at least one player counter to selectively increase the player count values for players identified in the prior step as qualifying for a player jackpot tally event;

determining whether any player whose player count value meets or exceeds a special round threshold amount in which case such player becomes a special player;

35 providing at least one special round at which the special player whose player count value met or exceeded the special round player threshold is allowed to play under special rules in an effort to achieve a special round jackpot.

47. A method according to claim 46 wherein the special round involves:  
counting the number of special round player qualifying events which occur during the  
at least one special round;

awarding a special round jackpot which is dependent upon the number of special  
5 round player qualifying events which occur during the at least one special round.

48. A method according to claim 46 wherein the special round involves:  
counting the number of special round player qualifying events which occur during the  
at least one special round;

counting the number of special round dealer qualifying events which occur during the  
10 at least one special round;

awarding a special round jackpot which is dependent upon the number of special  
round player qualifying events and the number of special round dealer qualifying events  
which occur during the at least one special round.

49. A method according to claim 46 wherein the special round involves allowing  
15 the special player to play multiple hands simultaneously during at least one special round.

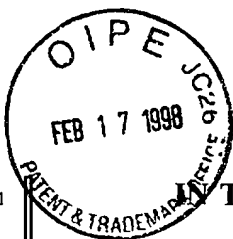
50. A method according to claim 46 wherein the special round involves  
suspending play for all players except the dealer and special player.

51. A method according to claim 46 wherein the special round involves allowing  
the special player to play multiple hands simultaneously during at least one special round of  
20 play, said special player playing in opposition to the dealer.

52. A method according to claim 46 wherein the special round involves allowing  
the special player to play multiple hands simultaneously during at least one special round of  
play, said special player being the only player allowed to play.

53. A method according to claim 46 further comprising awarding a suspended  
25 player award to players who have been suspended by play of the special round.

54. A method according to claim 46 further comprising awarding a suspended  
player award to players who have been suspended by play of the special round, said  
suspended player award being dependent upon an amount awarded to the special player as  
a special round jackpot.



1 THE UNITED STATES PATENT AND TRADEMARK OFFICE

2 Application Serial No. .... 08/913,723  
3 Filing Date .... September 10, 1997  
4 Inventor .... Forte et al.  
5 Assignee .... Casinovations, Inc.  
6 Group Art Unit .... Unknown  
7 Examiner .... Unknown  
8 Attorney's Docket No. .... CA52-025  
9 Title: Blackjack Game System and Methods

7 **DECLARATION OF INVENTORS FOR PATENT APPLICATION**

8 As the below named inventor, I hereby declare that:

9 My residence, post office address and citizenship are as stated  
10 below next to my name.

11 I believe I am the original, first and sole inventor (if only one  
12 name is listed below) or an original, first and joint inventor (if plural  
13 names are listed below) of the subject matter which is claimed and for  
14 which a patent is sought on the invention entitled: Blackjack Game  
15 System and Methods, filed on 13 October 1995 as PCT International  
16 Application Number PCT/US95/12908, now National Stage Application  
17 Serial No. 08/913,723 as amended on September 10, 1997.

18 I hereby state that I have reviewed and understand the contents  
19 of the above-identified specification, including the claims, as amended by  
20 any amendment referred to above.

21 I acknowledge the duty to disclose information known to me to  
22 be material to patentability as defined in Title 37, Code of Federal  
23 Regulations §1.56.  
24

1 I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d)  
2 or §365(b) of any foreign application(s) for patent or inventor's  
3 certificate, or §365(a) of any PCT international application which  
4 designated at least one country other than the United States, any foreign  
5 application for patent or inventor's certificate, or PCT international  
6 application having a filing date before that of the application on which  
7 priority is claimed.

8 **PRIOR FOREIGN APPLICATIONS:**

9 PCT/US95/06064      PCT      12/05/95  
10 (Number)      (Country)      (Day/Month/Year Filed)

11 PCT/US95/12908      PCT      13/10/95  
12 (Number)      (Country)      (Day/Month/Year Filed)

13 I hereby claim the benefit under 35 U.S.C. §120 of any United  
14 States application(s), or §365(c) of any PCT international application  
15 designating the United States, listed below. Insofar as the subject  
16 matter of each of the claims of this application is not disclosed in the  
17 prior United States or PCT International applications in the manner  
18 provided by the first paragraph of 35 U.S.C. §112, I acknowledge the  
19 duty to disclose information which is material to patentability as defined  
20 in 37 CFR §1.56 which became available between the applicable filing  
21 date of the prior application or applications and the national or PCT  
22 International filing date of this application.  
23

Application Number	Filing Date	Status
S.N. 08/242,229	May 13, 1994	Now Abandoned
S.N. 08/439,687	May 12, 1995	Issued 12/24/96 (U.S. Pat. No. 5,586,766)
PCT/US95/12908	October 13, 1995	Now Abandoned

#### POWER OF ATTORNEY:

As a named Inventor, I hereby appoint the following attorneys and agent to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: Richard J. St. John, Reg. No. 19,363; David P. Roberts, Reg. No. 23,032; Randy A. Gregory, Reg. No. 30,386; Mark S. Matkin, Reg. No. 32,268; James L. Price, Reg. No. 27,376; Deepak Malhotra, Reg. No. 33,560; Mark W. Hendricksen, Reg. No. 32,356; David G. Latwesen, Reg. No. 38,533; George G. Grigel, Reg. No. 31,166; Keith D. Grzelak, Reg. No. 37,144; John S. Reid, Reg. No. 36,369; Lance R. Sadler, Reg. No. 38,605; and James D. Shaurette, Reg. No. 39,833.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were

1 made with the knowledge that willful false statements and the like so  
2 made are punishable by fine or imprisonment, or both, under  
3 Section 1001 of Title 18 of the United States Code and that such willful  
4 false statement may jeopardize the validity of the application or any  
5 patent issued therefrom.  
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\* \* \* \* \*

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Full name of inventor: Randy D. Sines

Inventor's Signature: *Randy D. Sines*

Date: 2/9/98

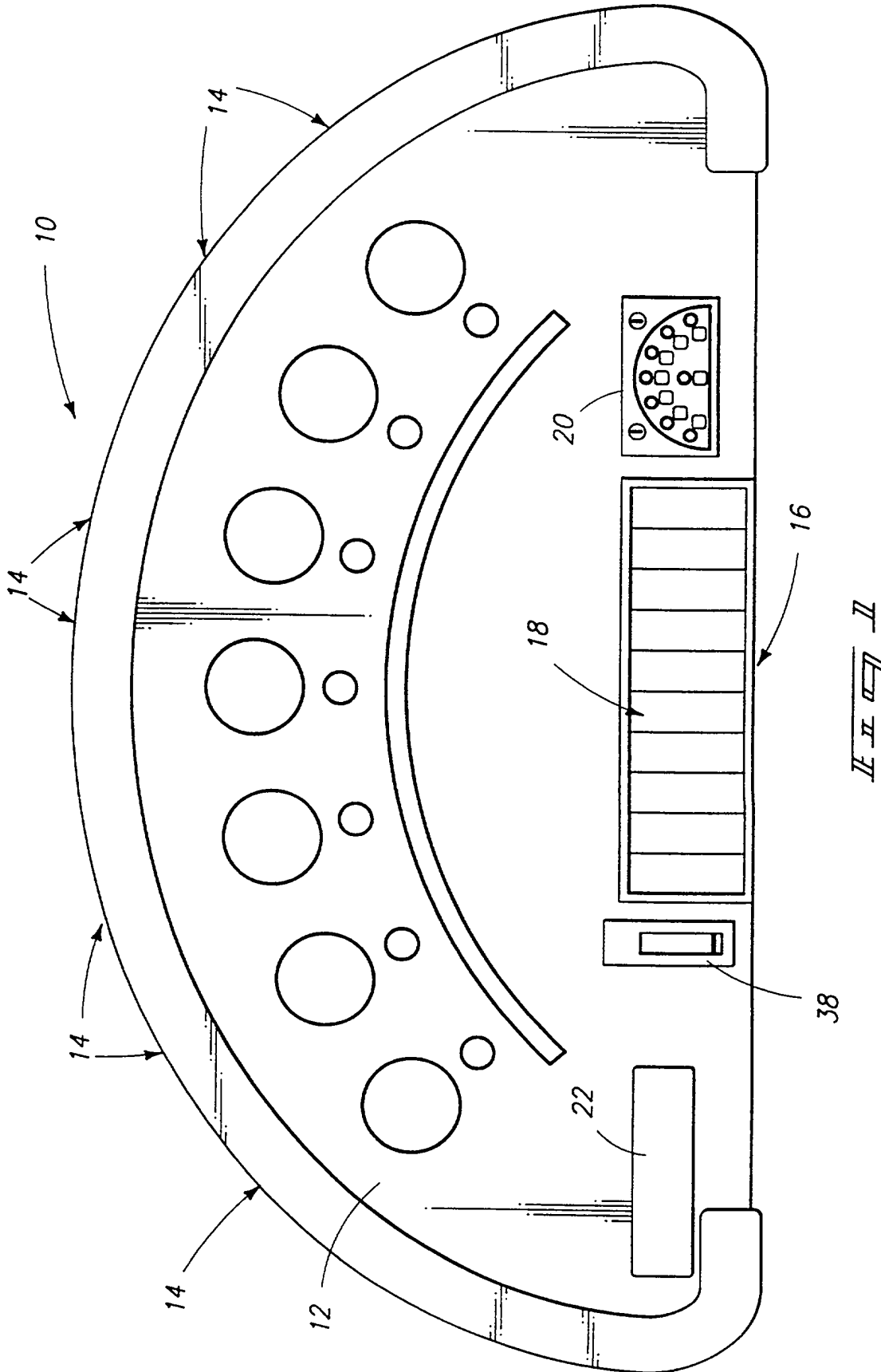
Residence: Spokane, Washington WA

Citizenship: U.S.A.

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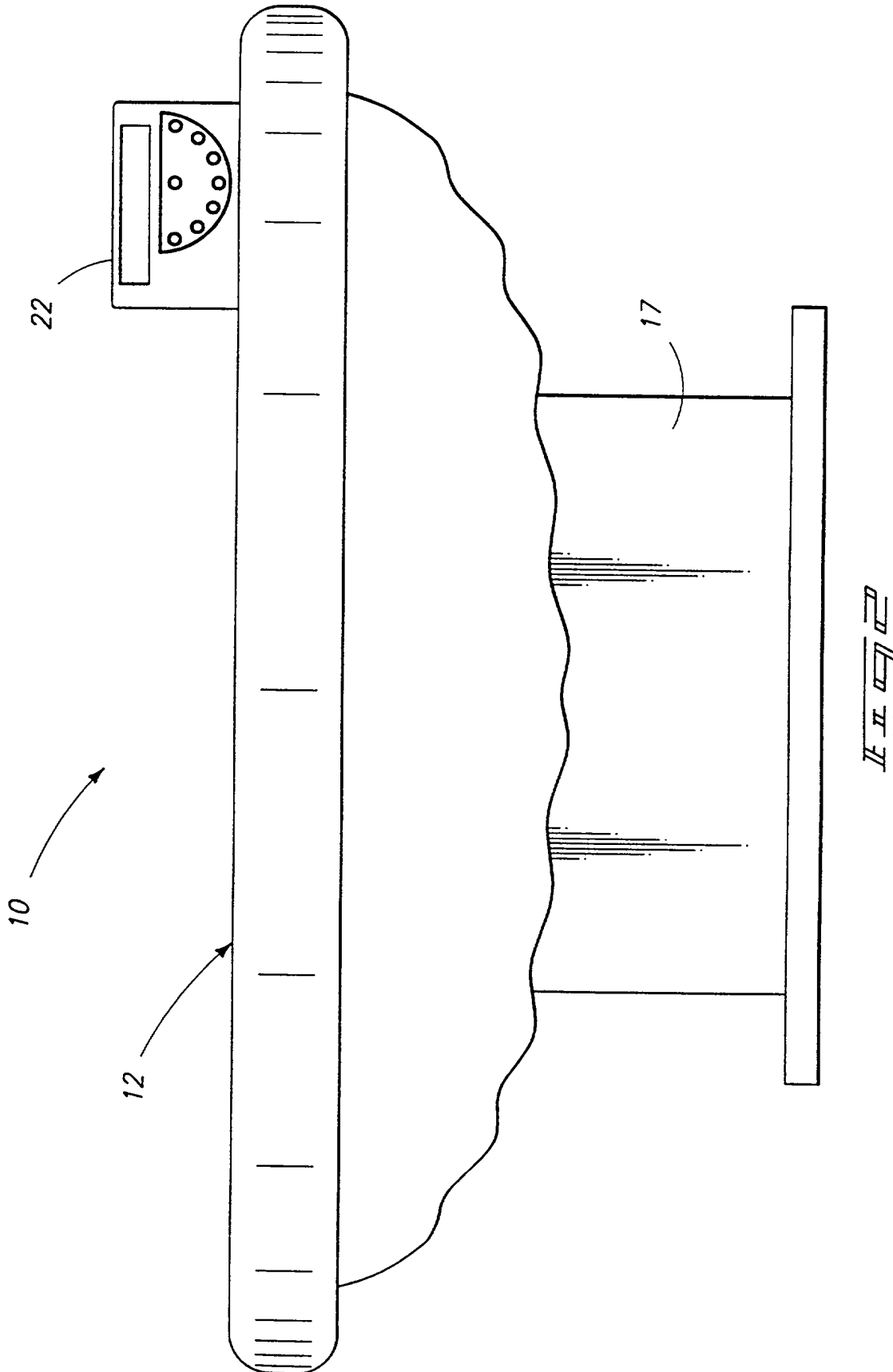


APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN	WO 96/35490	

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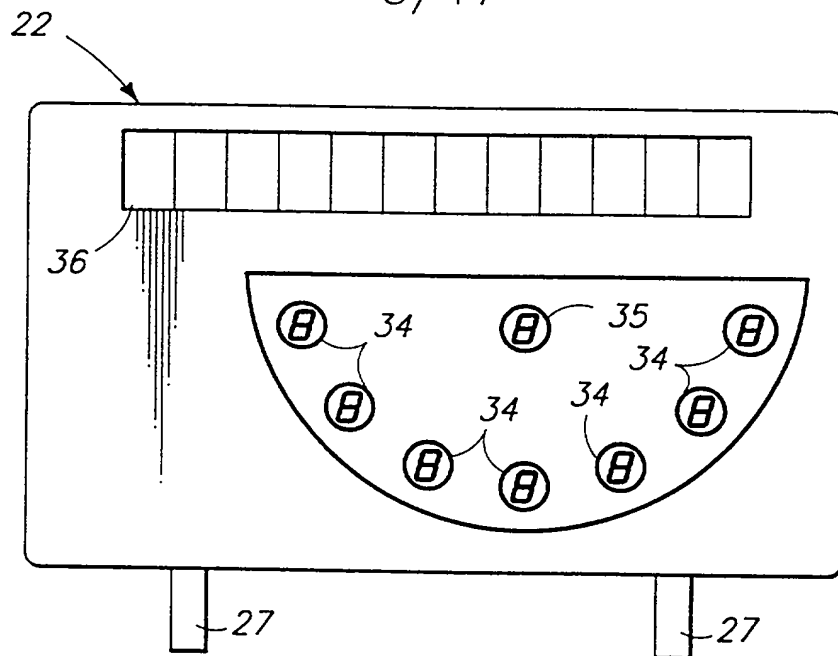


FIG. 3

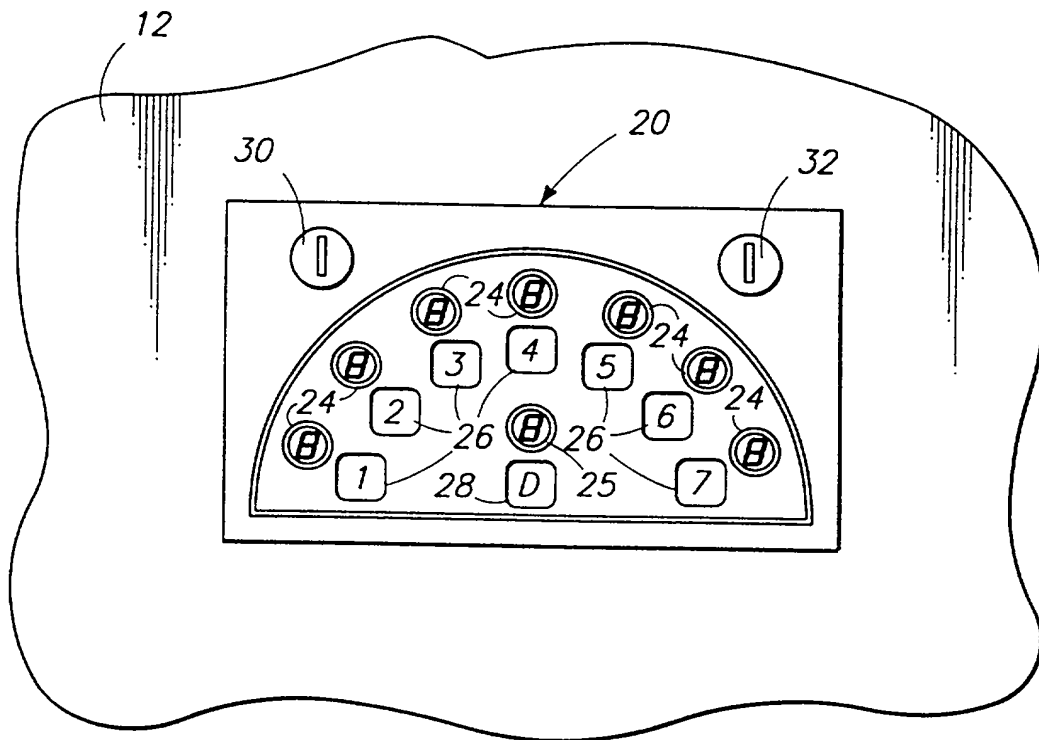
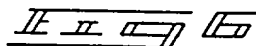
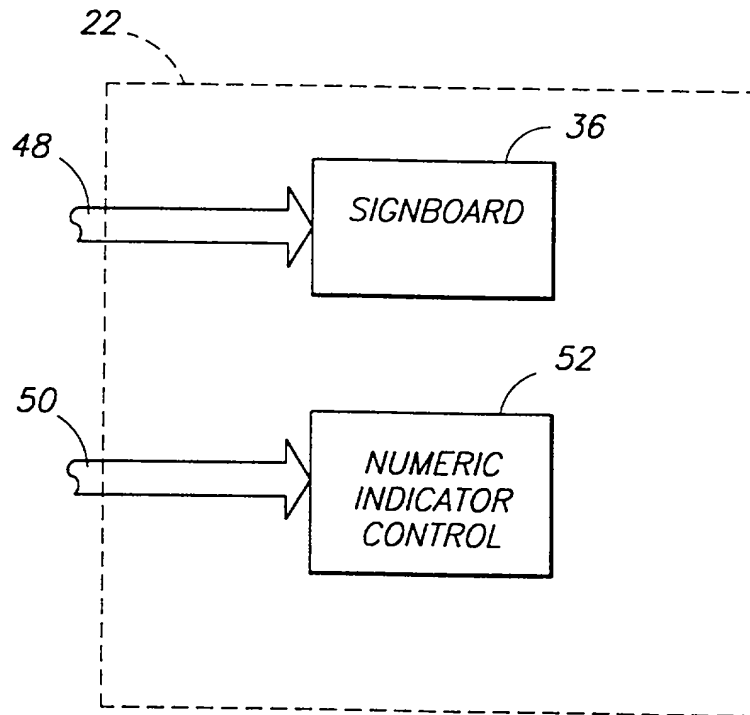
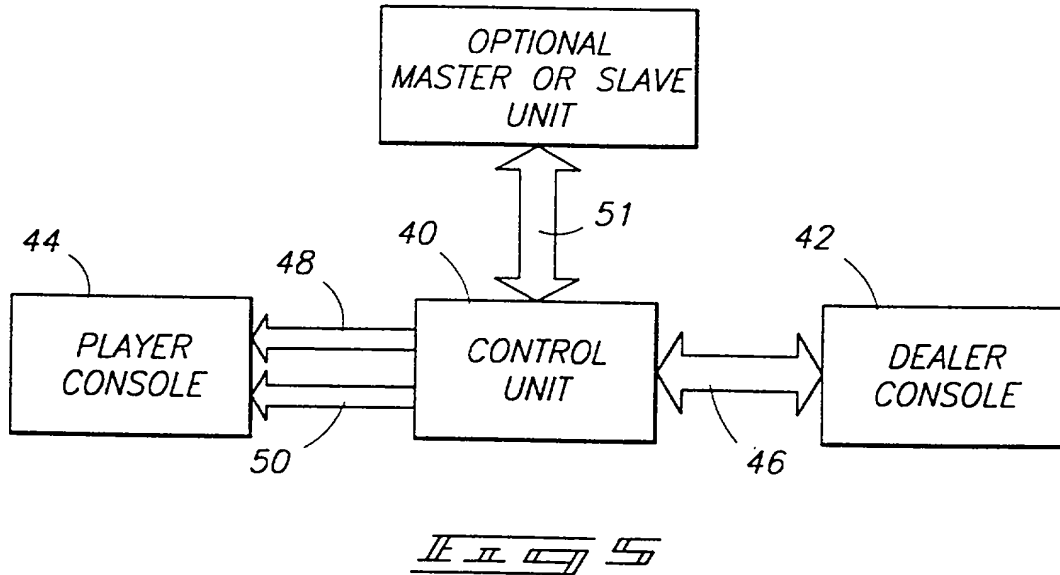
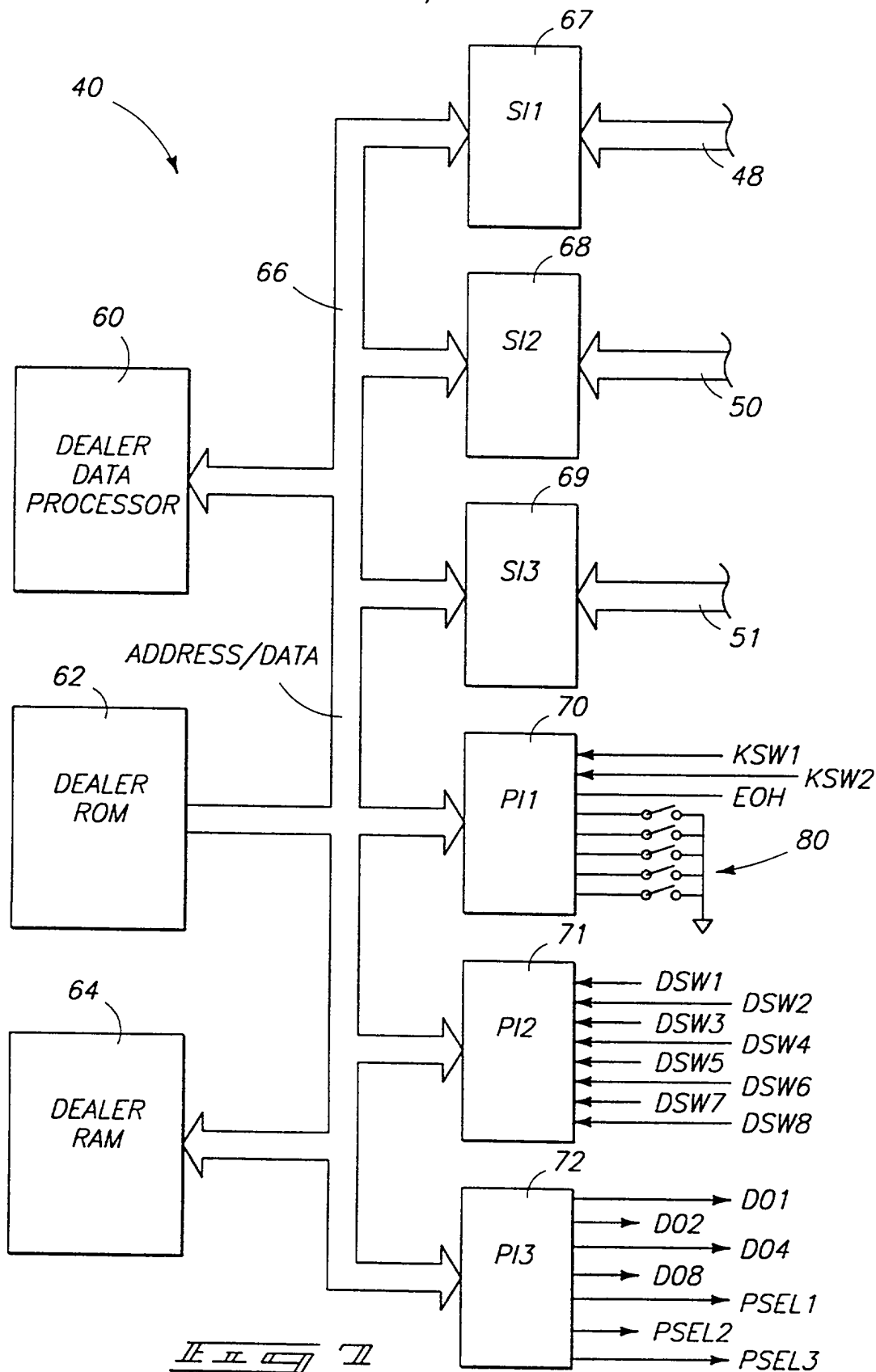


FIG. 4

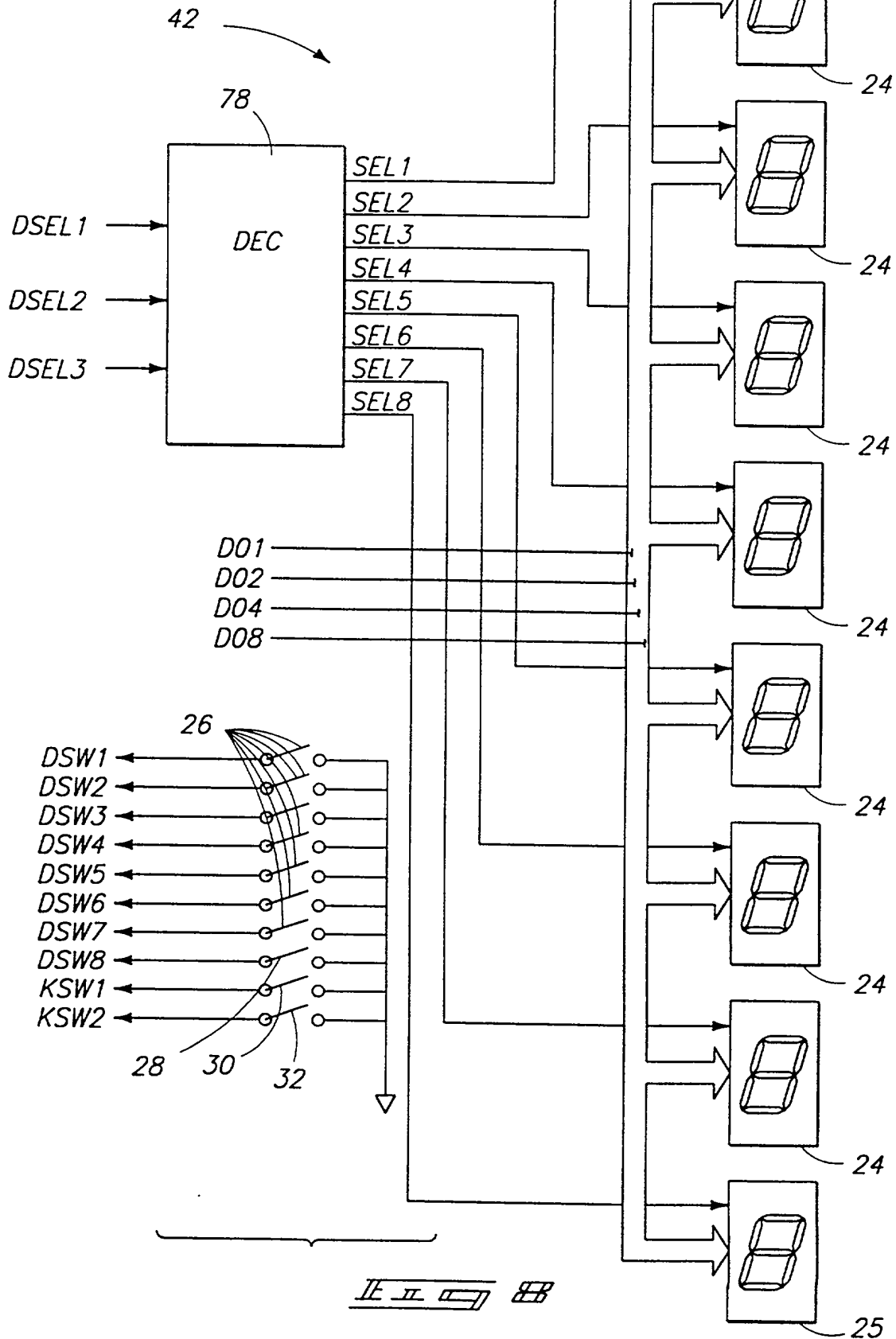
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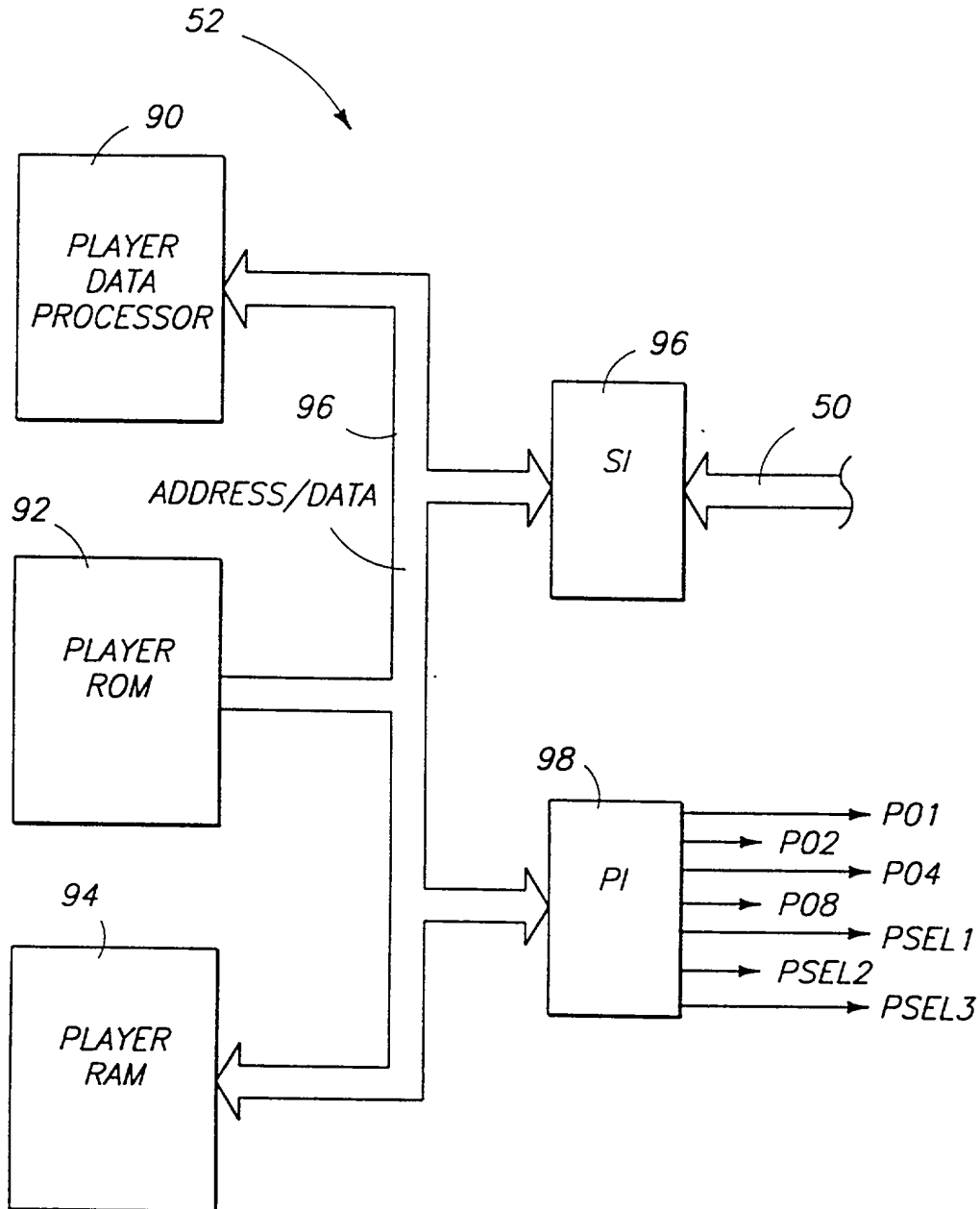
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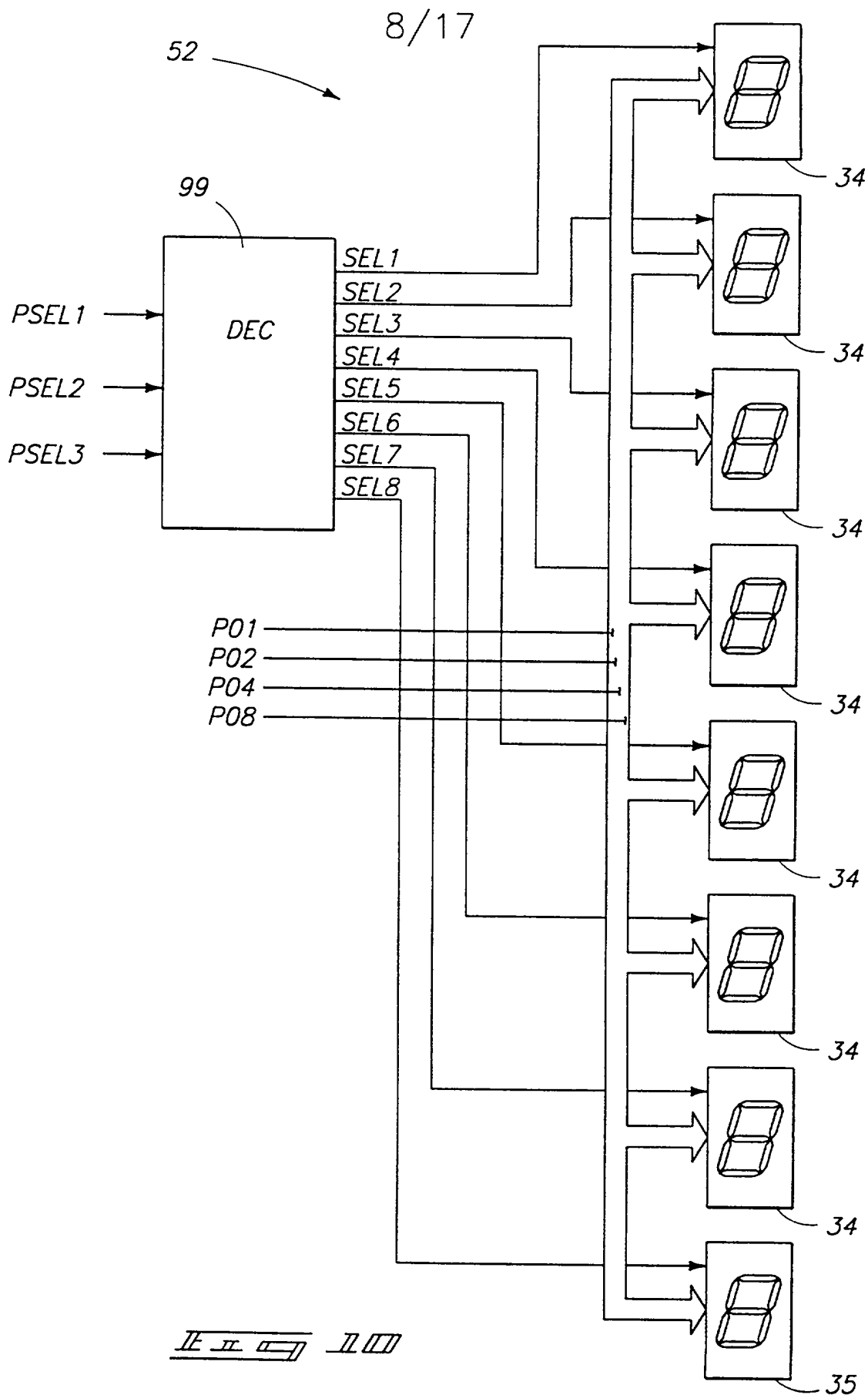


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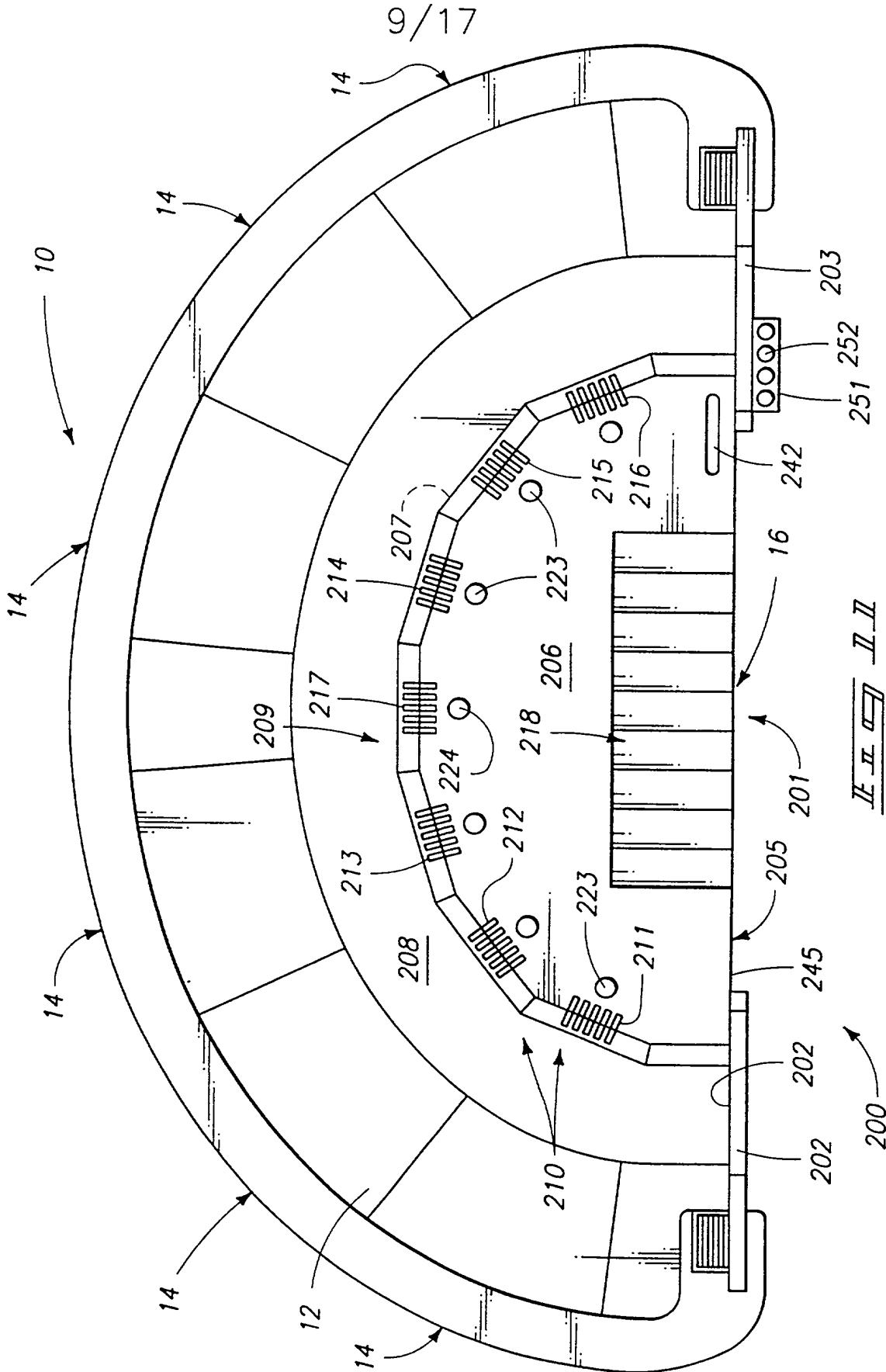


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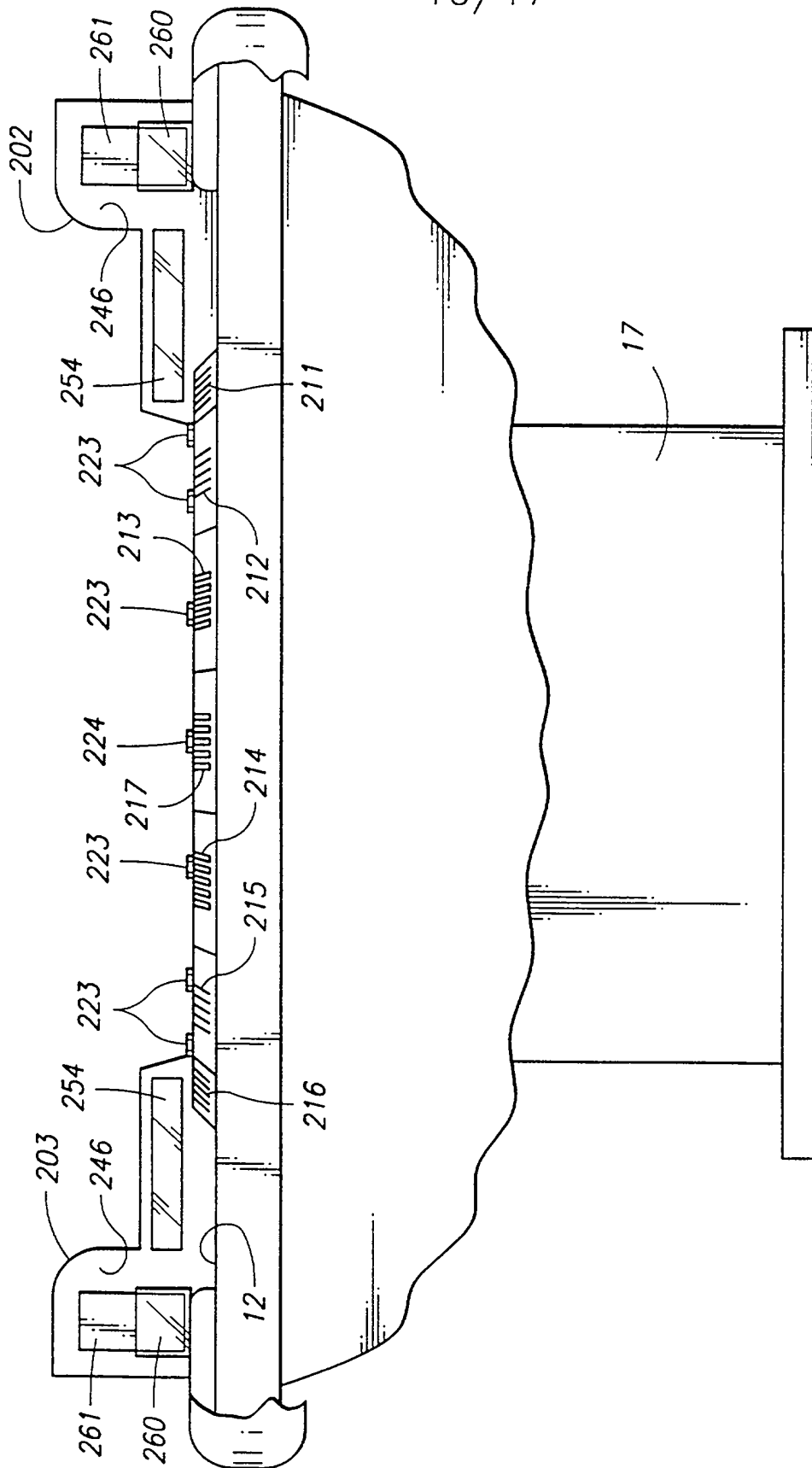


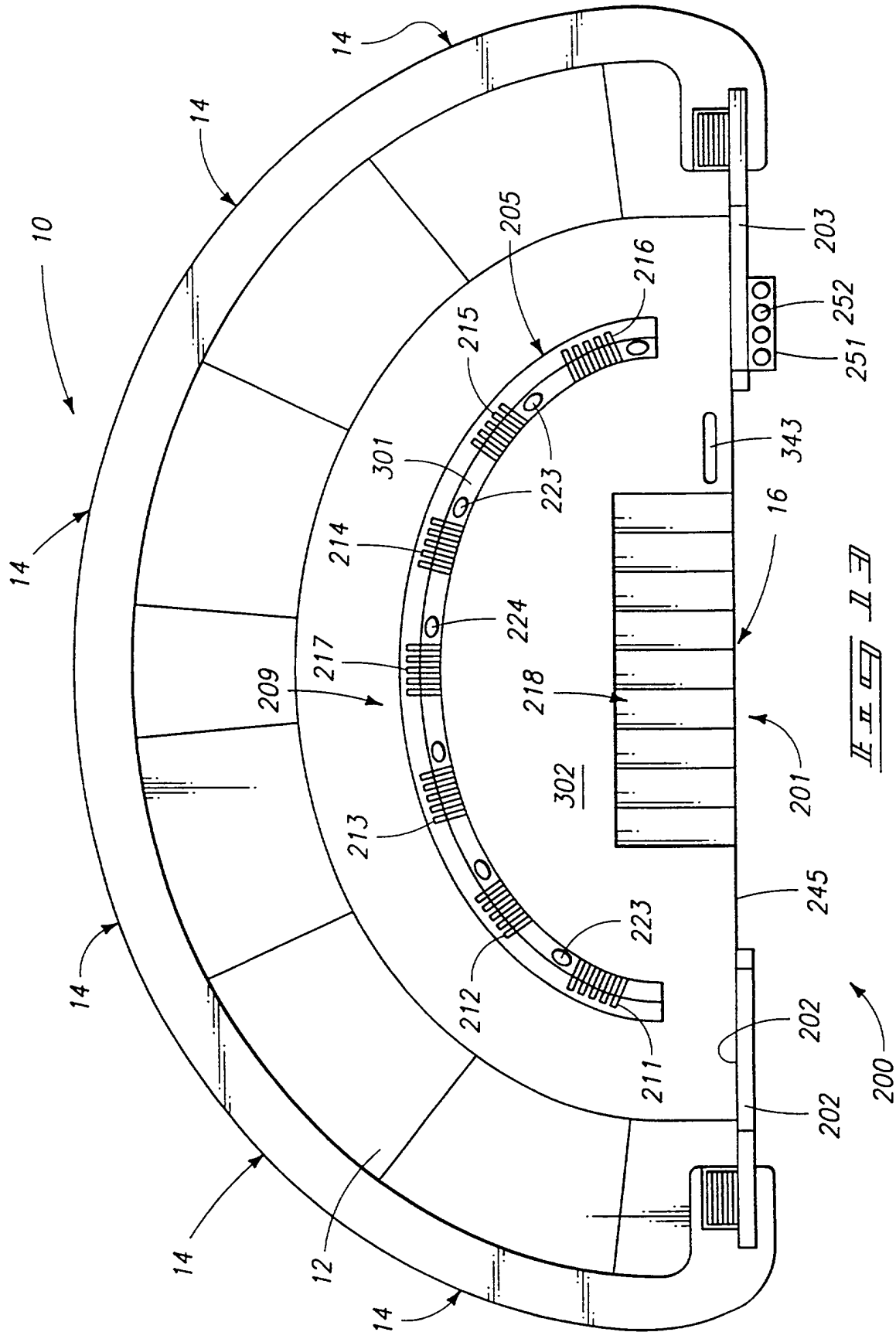




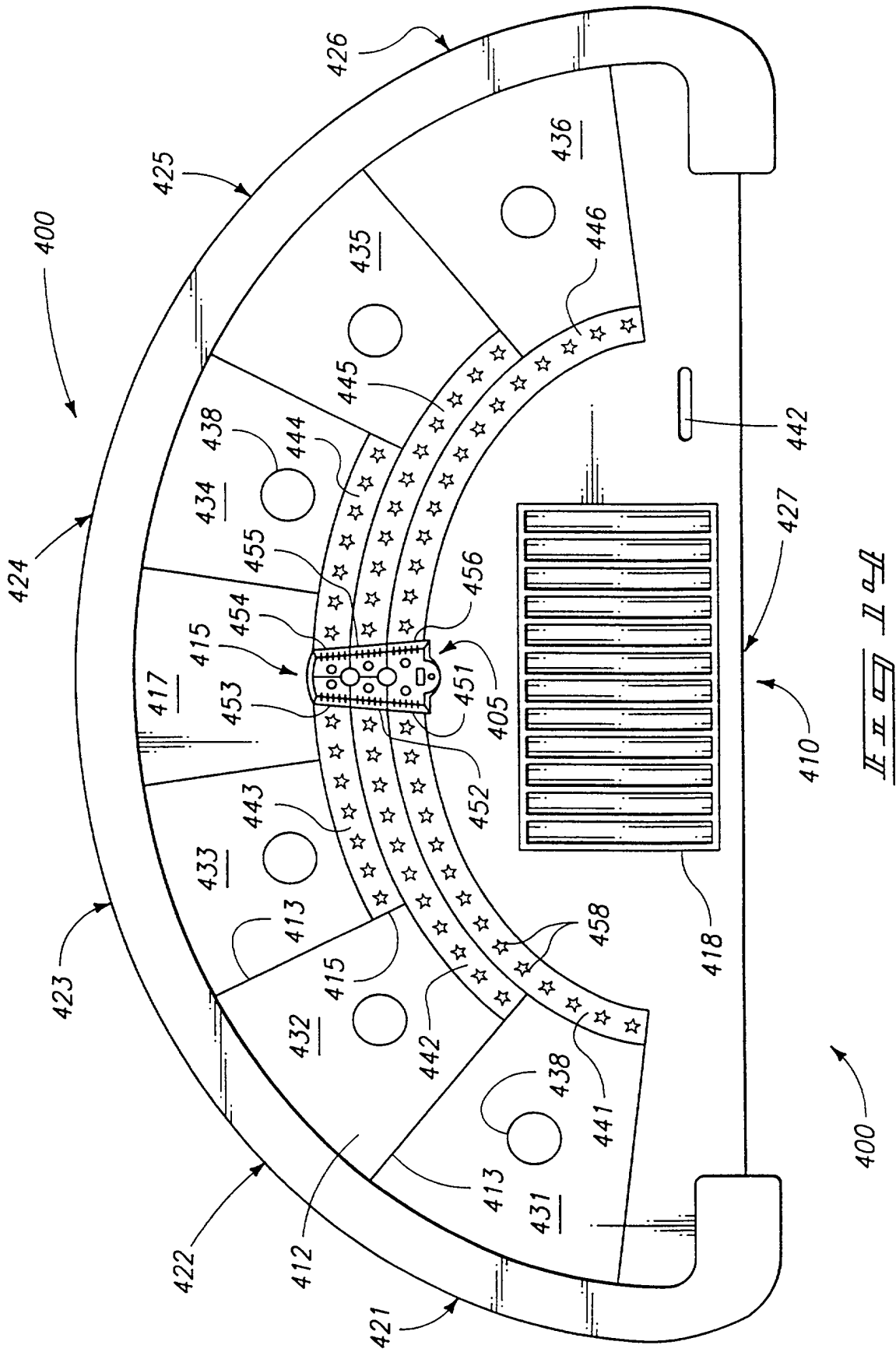


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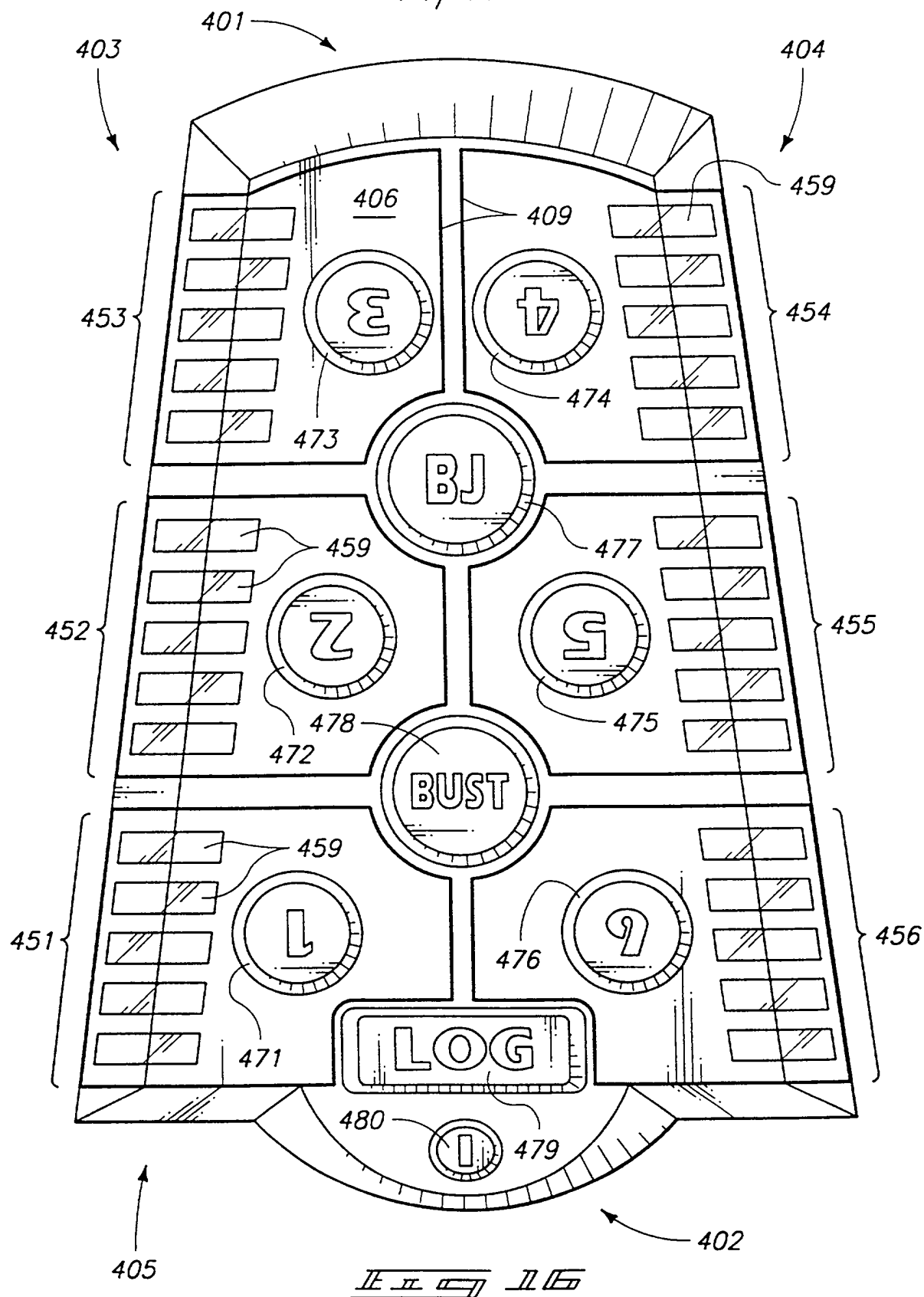


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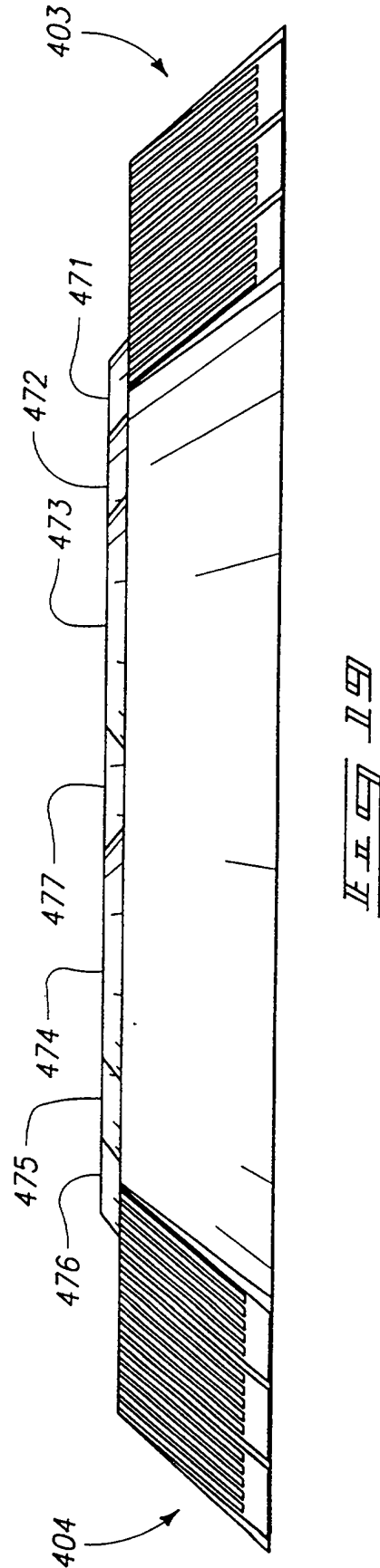
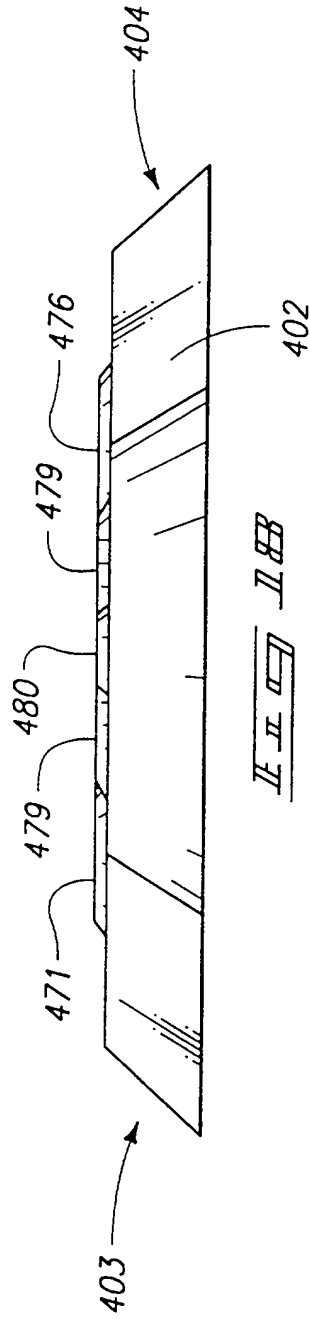
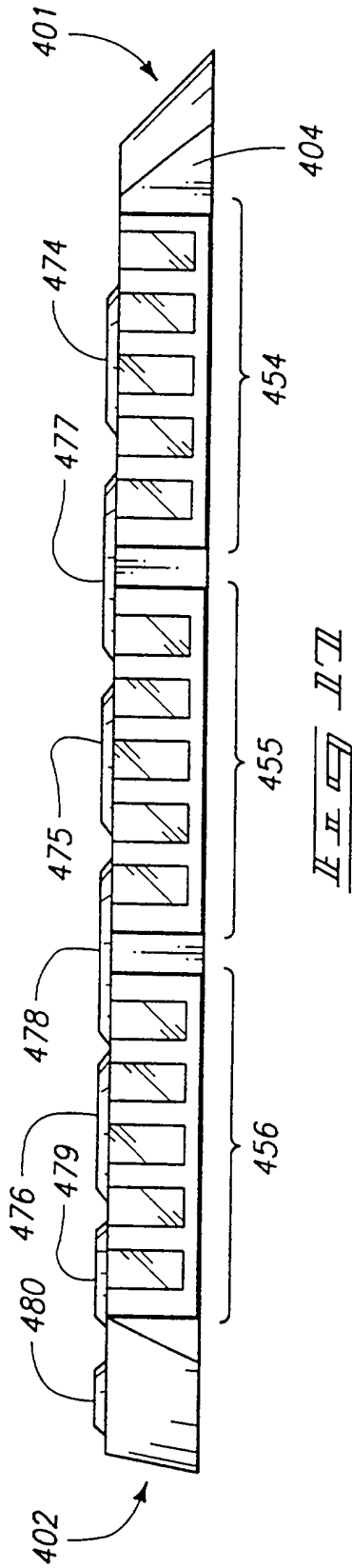


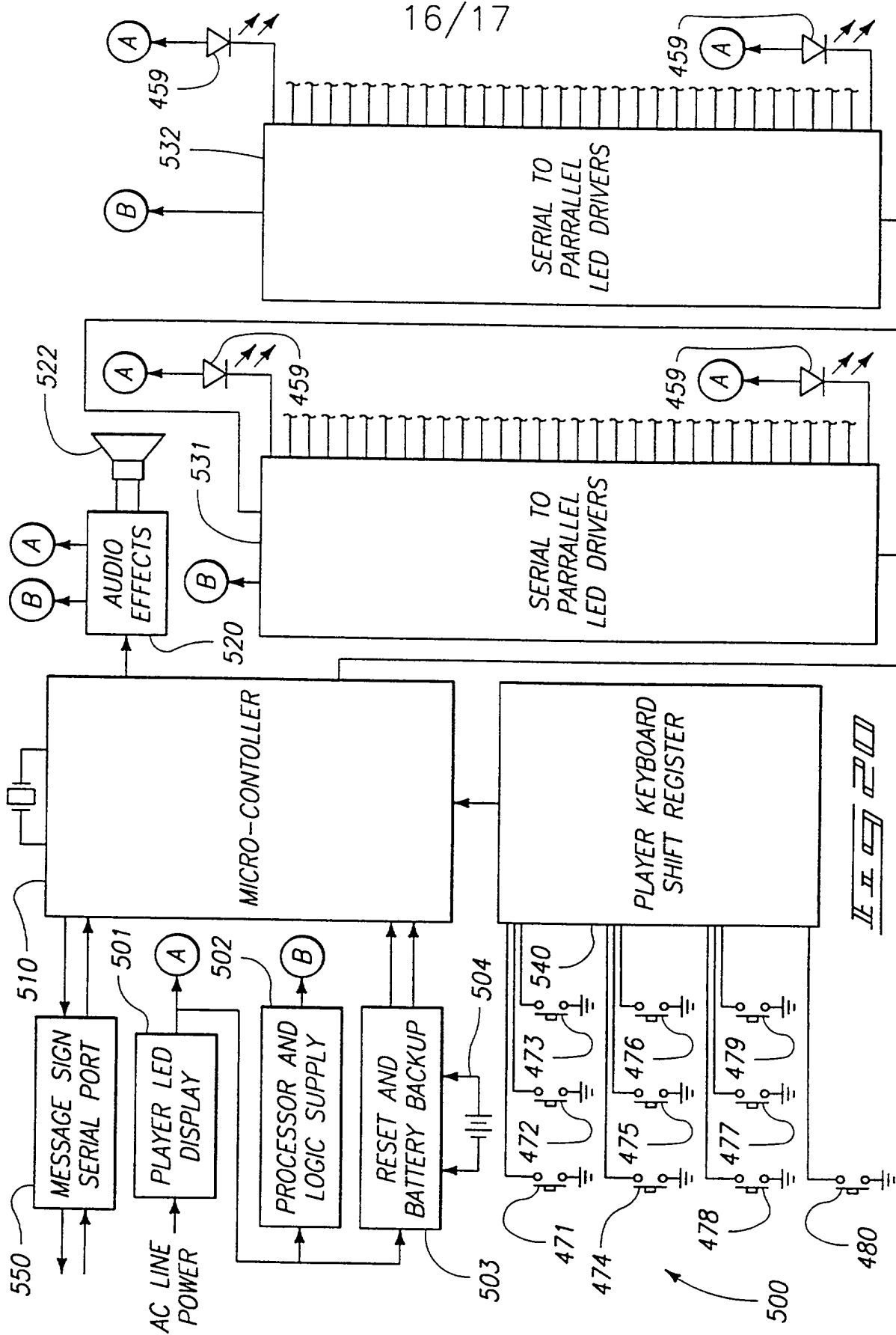


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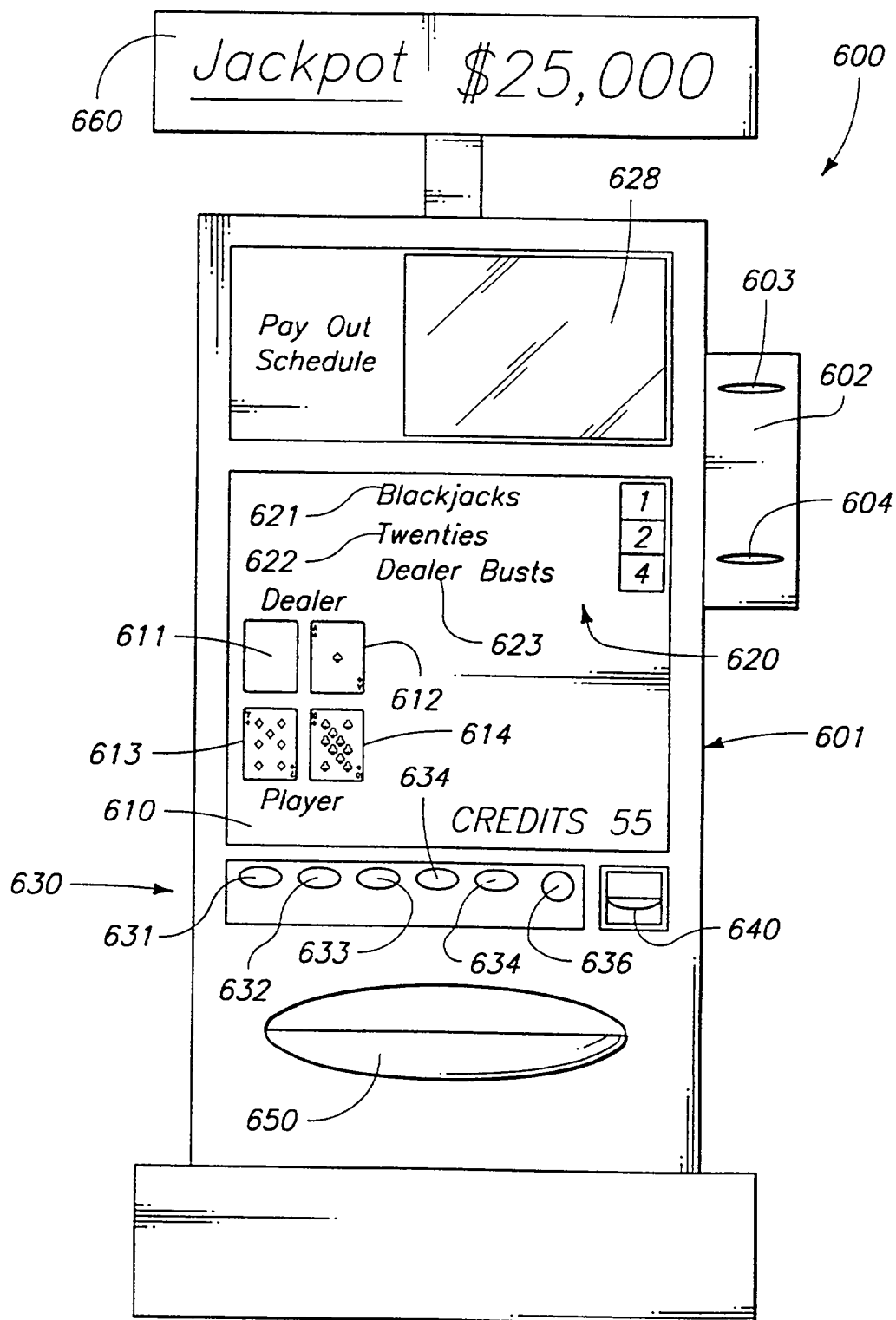
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. .... Unknown  
 National Stage Entry Date .... Filed herewith  
 Related PCT Application Serial Number .... PCT/US95/12908  
 Related PCT Application Filing Date .... 13 October 1995 (13.10.95)  
 Related PCT Priority Date .... 12 May 1995 (12.05.95)  
 Inventor .... Forte et al.  
 Applicant .... Casinovations, Inc.  
 Attorney's Docket No. .... CA52-025  
 Title: Blackjack Game System and Methods

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS  
 (37 CFR 1.9(f) and 1.27(c)) - SMALL BUSINESS CONCERN

I hereby declare that I am

- ☐ the owner of the small business concern identified below:  
☒ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN: Casinovations, Inc.  
 ADDRESS OF CONCERN: 2718 E. 57th, Suite 107, Spokane, WA 99223

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled Blackjack Game System and Methods by inventor(s) Steven L. Forte and Randy D. Sines described in the specification filed herewith.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). \*Note: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

NAME:

ADDRESS:

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

NAME:

ADDRESS:

☐ Individual ☒ Small Business Concern ☐ Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing STEVEN J. BLAO  
 Title of Person Other Than Owner PRESIDENT COO  
 Address of Person Signing 3509 S. Maryland Pkwy JF 311  
 Signature [Signature] Date 9/2/97